From: Perlis, Robert [Perlis.Robert@epa.gov]

**Sent**: 5/13/2020 9:43:16 PM

To: Chandrasekaran, Devi [Chandrasekaran.Devi@epa.gov]

CC: Koch, Erin [Koch.Erin@epa.gov]

Subject: Propiconazole/tebuconazole: AHETF's Petition to Cancel Jiangsu Registrations

Attachments: 2019-06-04 AHETF Petition to Cancel Jiangsu Fengdeng Registrations.PDF; 2019-06-04 Exhibits to AHETF Petition to

Cancel Jiangsu Registrations.PDF

1<sup>st</sup> of 2 petitions.

Bob Perlis Pesticides and Toxic Substances Law Office Office of General Counsel US EPA (202) 564-5636

From: Anthony L. Michaels <AMichaels@bdlaw.com>

Sent: Tuesday, June 04, 2019 2:45 PM

To: Cole, Joseph E. <cole.josephe@epa.gov>

**Cc:** zerotn@126.com; Perlis, Robert <Perlis.Robert@epa.gov>; Dave Johnson <davejohn@johnsonmgt.com>; Barnekow, Dave <david.barnekow@corteva.com>; Harold Himmelman <HHimmelman@bdlaw.com>; mschoonmaker@bdlaw.com

Subject: AHETF's Petition to Cancel Jiangsu Registrations

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Jiangsu Fengdeng under FIFRA based on its failure to comply with the terms of a data compensation settlement agreement, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC. ("AHETF"). A hardcopy is also being sent today by FedEx.

Thanks in advance for your consideration of AHETF's Petition.

Respectfully submitted,

Anthony L. Michaels Counsel for AHETF

Anthony L. Michaels Principal



1350 I Street, NW, Suite 700  $\sim$  Washington, DC 20005  $\sim$  bdlaw.com O +1.202.789.6058  $\sim$  M +1.202.841.8461  $\sim$  <u>AMichaels@bdlaw.com</u>

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From: Chandrasekaran, Devi [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=2886E47666924BB0A096737B73A4EAF0-CHANDRASEKA]

**Sent**: 6/16/2020 9:29:16 PM

To: Koch, Erin [Koch.Erin@epa.gov]

Subject: RE: Petition to Cancel FIFRA Registrations held by Jiangsu Fengdeng Crop Science Co., Ltd. and Fengdeng USA, Inc.

Attachments: Propiconazole/Tebuconazole: ARTF's Petition to Cancel Jiangsu Registrations; Propiconazole/tebuconazole: AHETF's

Petition to Cancel Jiangsu Registrations; propiconazole/tebuconazole petitions

## Ex. 5 Attorney Work Product (AWP)

Devi Chandrasekaran
Pesticides and Toxic Substances Law Office
Office of General Counsel
U.S. Environmental Protection Agency

Ex. 5 Attorney Client (AC)

From: Koch, Erin < Koch. Erin@epa.gov> Sent: Tuesday, June 16, 2020 5:09 PM

To: Chandrasekaran, Devi < Chandrasekaran. Devi@epa.gov>

Subject: Fw: Petition to Cancel FIFRA Registrations held by Jiangsu Fengdeng Crop Science Co., Ltd. and Fengdeng USA,

Inc.

202-564-7268

Devi,

## Ex. 5 Attorney Work Product (AWP)

Thanks, Erin Ex. 5 Attorney Client (AC)

From: Lehrenbaum, Warren < WLehrenbaum@crowell.com >

Sent: Friday, June 12, 2020 6:07 PM

To: Cole, Joseph E. <cole.josephe@epa.gov>

Cc: Koch, Erin < Koch. Erin@epa.gov>

Subject: Petition to Cancel FIFRA Registrations held by Jiangsu Fengdeng Crop Science Co., Ltd. and Fengdeng USA, Inc.

Dear Mr. Cole -

Nearly a year ago my client, Syngenta Crop Protection LLC ("Syngenta"), submitted a petition to EPA to cancel certain pesticide registrations held by Jiangsu Fengdeng Crop Science Co. and Fengdeng USA, Inc. ("Fengdeng"), pursuant to FIFRA section 3(c)(1)(F)(iii). A copy of that petition is attached. Syngenta was forced to take this action because Fengdeng has consistently failed to abide by the terms of an agreement to pay compensation to Syngenta for data in EPA's files, owned by Syngenta, that Fengdeng relied on to support

its registration applications. Fengdeng has acknowledged its failure to abide by this agreement and as far as we are aware, Fengdeng has failed to respond to Syngenta's petition.

In Section 3(c)(1)(F) of FIFRA, Congress identified cancellation as the precise remedy to be applied in circumstances such as this (when a registrant fails to fulfill the data compensation obligations it has agreed to). Indeed, this remedy is the linchpin that assures the integrity of FIFRA's mandatory data licensing system. Against this backdrop, it is difficult to understand why EPA has failed to act on Syngenta's petition for nearly a full year.

Accordingly, I would be grateful if you could provide me with an update on EPA's review of this petition, and, more specifically, an anticipated timeframe for rendering a decision on the petition. If I can provide you with any additional information, please let me know.

Sincerely,

Warren U. Lehrenbaum

wlehrenbaum@crowell.com

Direct: 1.202.624.2755 | Mobile: 1.240.401.0038

Crowell & Moring LLP | www.crowell.com

1001 Pennsylvania Avenue, NW

Washington, DC 20004

From: Perlis, Robert [Perlis.Robert@epa.gov]

**Sent**: 5/13/2020 9:44:05 PM

To: Chandrasekaran, Devi [Chandrasekaran.Devi@epa.gov]

**CC**: Koch, Erin [Koch.Erin@epa.gov]

Subject: Propiconazole/Tebuconazole: ARTF's Petition to Cancel Jiangsu Registrations

Attachments: 2019-06-04 ARTF Petition to Cancel Jiangsu Fengdeng Registrations.PDF; 2019-06-04 Exhibits to ARTF Petition to

Cancel Jiangsu Registrations.PDF

## 2<sup>nd</sup> of 2 petitions

Bob Perlis Pesticides and Toxic Substances Law Office Office of General Counsel US EPA (202) 564-5636

From: Anthony L. Michaels <AMichaels@bdlaw.com>

Sent: Tuesday, June 04, 2019 2:47 PM

To: Cole, Joseph E. <cole.josephe@epa.gov>

Cc: zerotn@126.com; Perlis, Robert <Perlis.Robert@epa.gov>; Dave Johnson <davejohn@johnsonmgt.com>; Ram

Seethapathi <sramanathan@gharda.com>; Harold Himmelman <HHimmelman@bdlaw.com>;

mschoonmaker@bdlaw.com

Subject: ARTF's Petition to Cancel Jiangsu Registrations

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Jiangsu Fengdeng under FIFRA for failure to comply with the terms of a data compensation settlement agreement, with exhibits, filed on behalf of the Agricultural Re-entry Task Force, LLC. ("ARTF"). A hardcopy is also being sent today by FedEx.

Thanks in advance for your consideration of ARTF's Petition.

Respectfully submitted,

Anthony L. Michaels Counsel for ARTF

Anthony L. Michaels Principal



1350 I Street, NW, Suite 700 ~ Washington, DC 20005 ~ bdlaw.com O +1.202.789.6058 ~ M +1.202.841.8461 ~ <u>AMichaels@bdlaw.com</u>

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From: Perlis, Robert [Perlis.Robert@epa.gov]

**Sent**: 5/13/2020 9:40:05 PM

To: Chandrasekaran, Devi [Chandrasekaran.Devi@epa.gov]

CC: Koch, Erin [Koch.Erin@epa.gov]Subject: propiconazole/tebuconazole petitionsAttachments: propiconazole.tebuconazole summaries.docx

Devi:

## Ex. 5 Attorney Work Product (AWP)

# Ex. 5 Attorney Client (AC)

Bob Perlise
Pesticides and Toxic Substances Law Office
Office of General Counsel
US EPA
(202) 564-5636

From: Koch, Erin [Koch.Erin@epa.gov]

**Sent**: 2/11/2021 5:19:38 PM

To: Hernandez, Connie [Hernandez.Connie@epa.gov]; Sleasman, Katherine [Sleasman.Katherine@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

#### Thanks!

From: Hernandez, Connie < Hernandez. Connie@epa.gov>

Sent: Thursday, February 11, 2021 10:49 AM

To: Koch, Erin <Koch.Erin@epa.gov>; Sleasman, Katherine <Sleasman.Katherine@epa.gov>

Cc: Stoner, Nora <Stoner.Nora@epa.gov>

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Erin,

I have tracked down the RD folks and emailed them the petition. I have cc'd you in that email. The POCs are Eric Kraft and Rachel Holloman.

Thanks,

Connie Hernandez, Environmental Protection Specialist Regulatory Support Branch, Mission Support Division Office of Program Support, Office of Chemical Safety and Pollution Prevention

U.S. Environmental Protection Agency

P:(703) 305-5190

### Ex. 6 Personal Privacy

From: Hernandez, Connie

Sent: Thursday, February 11, 2021 7:34 AM

To: Koch, Erin < Koch. Erin@epa.gov >; Sleasman, Katherine < Sleasman. Katherine@epa.gov >

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Erin,

I will try to track down the RD folks for this petition.

Thanks,

Connie Hernandez, Environmental Protection Specialist Regulatory Support Branch, Mission Support Division

Office of Program Support, Office of Chemical Safety and Pollution Prevention

U.S. Environmental Protection Agency

P:(703) 305-5190

Ex. 6 Personal Privacy

From: Koch, Erin < Koch. Erin@epa.gov>

Sent: Wednesday, February 10, 2021 4:07 PM

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

## **Attorney Client / Ex. 5**

From: Koch, Erin

Sent: Wednesday, February 10, 2021 3:46 PM

To: Hernandez, Connie <a href="Hernandez.Connie@epa.gov">Hernandez.Connie@epa.gov</a>; Sleasman, Katherine <a href="Sleasman.Katherine@epa.gov">Sleasman, Katherine@epa.gov</a>>

Subject: FW: Petition to Cancel RM Glufosinate-Ammonium Technical

## **Attorney Client / Ex. 5**

Thanks,

Erin

From: Mackenzie Schoonmaker < MSchoonmaker@bdlaw.com >

**Sent:** Wednesday, February 10, 2021 3:39 PM **To:** Cole, Joseph E. <<u>cole.josephe@epa.gov</u>>

Cc: mikem@raganandmassey.com; dcompburkey@gmail.com; davejohn@johnsonmgt.com; Janelle Kay

<a href="mailto:specification-color: blue, color: blue, c

Michele <knorr.michele@epa.gov>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Ragan and Massey, Inc. under FIFRA, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC.

Thank you in advance for your consideration of AHETF's Petition.

Respectfully submitted,

Mackenzie Schoonmaker Counsel for AHETF

## Mackenzie Schoonmaker

Principal



477 Madison Ave. 15th Floor ~ New York, NY 10022 ~ bdlaw.com O +1.212.702.5415 ~ M +1.914.589.7110 ~ <u>MSchoonmaker@bdlaw.com</u>

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From: Koch, Erin [Koch.Erin@epa.gov]
Sent: 2/11/2021 12:35:17 PM

To: Hernandez, Connie [Hernandez.Connie@epa.gov]; Sleasman, Katherine [Sleasman.Katherine@epa.gov]

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

**Thanks** 

From: Hernandez, Connie < Hernandez. Connie@epa.gov>

Sent: Thursday, February 11, 2021 7:34 AM

To: Koch, Erin <Koch.Erin@epa.gov>; Sleasman, Katherine <Sleasman.Katherine@epa.gov>

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Erin,

## Attorney Client / Ex. 5

Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
P:(703) 305-5190

Ex. 6 Personal Privacy

From: Koch, Erin < Koch, Erin@epa.gov>

Sent: Wednesday, February 10, 2021 3:46 PM

To: Hernandez, Connie < Hernandez. Connie@epa.gov >; Sleasman, Katherine < Sleasman. Katherine@epa.gov >

Subject: FW: Petition to Cancel RM Glufosinate-Ammonium Technical

## **Attorney Client / Ex. 5**

Thanks,

Erin

From: Mackenzie Schoonmaker < MSchoonmaker@bdlaw.com>

**Sent:** Wednesday, February 10, 2021 3:39 PM **To:** Cole, Joseph E. <<u>cole.josephe@epa.gov</u>>

Cc: mikem@raganandmassey.com; dcompburkey@gmail.com; davejohn@johnsonmgt.com; Janelle Kay

<janelle@pyxisrc.com>; Echeverria, Marietta <<u>Echeverria.Marietta@epa.gov</u>>; Koch, Erin <<u>Koch.Erin@epa.gov</u>>; Knorr,

Michele < knorr.michele@epa.gov>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Ragan and Massey, Inc. under FIFRA, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC.

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Respectfully submitted,

Mackenzie Schoonmaker Counsel for AHETF

Mackenzie Schoonmaker Principal



477 Madison Ave. 15th Floor ~ New York, NY 10022 ~ bdlaw.com O +1.212.702.5415 ~ M +1.914.589.7110 ~ <u>MSchoonmaker@bdlaw.com</u>

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From: Hernandez, Connie [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CE4A098F205B421988EE330EDFA10E4B-HERNANDEZ, CONNIE]

**Sent**: 2/11/2021 3:48:30 PM

To: Koch, Erin [Koch.Erin@epa.gov]; Sleasman, Katherine [Sleasman.Katherine@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Erin,

I have tracked down the RD folks and emailed them the petition. I have cc'd you in that email. The POCs are Eric Kraft and Rachel Holloman.

Thanks,

Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
P:(703) 305-5190

Ex. 6 Personal Privacy

From: Hernandez, Connie

Sent: Thursday, February 11, 2021 7:34 AM

To: Koch, Erin < Koch. Erin@epa.gov >; Sleasman, Katherine < Sleasman. Katherine@epa.gov >

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Erin,

I will try to track down the RD folks for this petition.

Thanks,

Connie Hernandez, Environmental Protection Specialist Regulatory Support Branch, Mission Support Division Office of Program Support, Office of Chemical Safety and Pollution Prevention U.S. Environmental Protection Agency

P:(703) 305-5190

### Ex. 6 Personal Privacy

From: Koch, Erin < Koch. Erin@epa.gov>

Sent: Wednesday, February 10, 2021 4:07 PM

To: Hernandez, Connie < Hernandez. Connie@epa.gov >; Sleasman, Katherine < Sleasman. Katherine@epa.gov >

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

I've now skimmed the petition and hidden in this petition to cancel is a petition to deny related applications (which there may be some, there may not), so if you can help figure out the right RD contacts, we should alert them of this ASAP. Thanks!

From: Koch, Erin

Sent: Wednesday, February 10, 2021 3:46 PM

To: Hernandez, Connie < Hernandez. Connie@epa.gov >; Sleasman, Katherine < Sleasman. Katherine@epa.gov >

Subject: FW: Petition to Cancel RM Glufosinate-Ammonium Technical

Here's a new data comp petition, just in. I have not sent an acknowledgement email, but I will enter it into the tracking chart. Can OPS send the acknowledgement?

Thanks,

Erin

From: Mackenzie Schoonmaker < MSchoonmaker @bdlaw.com>

**Sent:** Wednesday, February 10, 2021 3:39 PM **To:** Cole, Joseph E. <<u>cole.josephe@epa.gov</u>>

Cc: mikem@raganandmassey.com; dcompburkey@gmail.com; davejohn@johnsonmgt.com; Janelle Kay

<janelle@pyxisrc.com>; Echeverria, Marietta <<u>Echeverria.Marietta@epa.gov</u>>; Koch, Erin <<u>Koch.Erin@epa.gov</u>>; Knorr,

Michele <knorr.michele@epa.gov>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Ragan and Massey, Inc. under FIFRA, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC.

Thank you in advance for your consideration of AHETF's Petition.

Respectfully submitted,

Mackenzie Schoonmaker Counsel for AHETF

Mackenzie Schoonmaker Principal



477 Madison Ave. 15th Floor ~ New York, NY 10022 ~ bdlaw.com 0 +1.212.702.5415 ~ M +1.914.589.7110 ~ MSchoonmaker@bdlaw.com

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From: Hernandez, Connie [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CE4A098F205B421988EE330EDFA10E4B-HERNANDEZ, CONNIE]

**Sent**: 2/11/2021 3:47:31 PM

**To**: Kraft, Erik [Kraft.Erik@epa.gov]

CC: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Stoner, Nora [Stoner.Nora@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

**Subject**: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Attachments: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

Hi Eric,

Thank you for letting me know.

We have received a petition (attached) on February 10, 2021, to cancel RM Glufosinate-Ammonium Technical held by Ragan and Massey, Inc submitted by Agricultural Handler Exposure Task Force, LLC.

Attorney Client / Ex. 5

## Attorney Client / Ex. 5

Attorney Client / Ex. 5

Please let me know if you have any questions or concerns.

Thank you,

Connie Hernandez, Environmental Protection Specialist Regulatory Support Branch, Mission Support Division

Office of Program Support, Office of Chemical Safety and Pollution Prevention

U.S. Environmental Protection Agency

P:(703) 305-5190

## Ex. 6 Personal Privacy

From: Kraft, Erik < Kraft. Erik@epa.gov>
Sent: Thursday, February 11, 2021 9:31 AM

To: Hernandez, Connie < Hernandez. Connie@epa.gov>

Cc: Sleasman, Katherine <Sleasman.Katherine@epa.gov>; Stoner, Nora <Stoner.Nora@epa.gov>; Holloman, Rachel

<Holloman.Rachel@epa.gov>

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Connie,

Yes Glufosinate is assigned to my team, team 24. You should also cc Rachel on all emails.

Thanks

Erik

From: Hernandez, Connie < Hernandez. Connie@epa.gov>

Sent: Thursday, February 11, 2021 8:00 AM

To: Kraft, Erik < Kraft. Erik@epa.gov>

Cc: Sleasman, Katherine <<u>Sleasman.Katherine@epa.gov</u>>; Stoner, Nora <<u>Stoner.Nora@epa.gov</u>>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Good morning Erik,

OPP has received another petition regarding Glufosinate-Ammonium. I saw that in a previous petition regarding Glufosinate-Ammonium You were cc'd and would like to know if you are the POC for this subject? If not, would you happen to know which team?

Thank you,
Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
P:(703) 305-5190

Ex. 6 Personal Privacy

From: Hernandez, Connie [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CE4A098F205B421988EE330EDFA10E4B-HERNANDEZ, CONNIE]

Sent: 2/11/2021 12:50:24 PM
To: mschoonmaker@bdlaw.com

CC: Cole, Joseph E. [cole.josephe@epa.gov]; Echeverria, Marietta (Echeverria.Marietta@epa.gov)

[Echeverria.Marietta@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Knorr, Michele [Knorr.Michele@epa.gov]; Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Smoot, Cameo [Smoot.Cameo@epa.gov]; Stoner, Nora

[Stoner.Nora@epa.gov]

**Subject**: Petition to Cancel RM Glufosinate-Ammonium Technical

Attachments: 2021-02-10 AHETF Petition to Cancel Ragan Massey Glufosinate Technical (with Exhibits).pdf

Dear Ms. Schoonmaker,

This email is an acknowledgement receipt of your February 10, 2021 response regarding petition to cancel RM Glufosinate-Ammonium Technical held by Ragan and Massey, Inc submitted by Agricultural Handler Exposure Task Force, LLC.

Your letter has been forwarded to the appropriate division which will be evaluating your request and will keep you informed of the progress. EPA appreciates your concern regarding this issue.

Thank you,

Connie Hernandez, Environmental Protection Specialist Regulatory Support Branch, Mission Support Division Office of Program Support, Office of Chemical Safety and Pollution Prevention U.S. Environmental Protection Agency

P:(703) 305-5190 Ex. 6 Personal Privacy



Mackenzie S. Schoonmaker 15th Floor 477 Madison Avenue New York, NY 10022-5802 +1.212.702.5415 mschoonmaker@bdlaw.com

February 10, 2021

## **VIA E-MAIL**

Mr. Joseph E. Cole
Associate General Counsel
Office of the General Counsel
U.S. Environmental Protection Agency
William Jefferson Clinton Building (North)
Mail Code 2310A
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460
Cole.JosephE@epa.gov

## Re: Petition to Cancel RM Glufosinate-Ammonium Technical

The Agricultural Handler Exposure Task Force, LLC (AHETF or the Task Force) hereby petitions the United States Environmental Protection Agency (EPA or the Agency) to cancel the RM Glufosinate-Ammonium Technical (Technical) registration (EPA Reg. No. 84840-3) held originally by Ragan and Massey, Inc. (EPA Reg. No. 84009-34) and transferred to Ragan and Massey Inc.'s affiliate Tangi-Pac, LLC (Ragan and Massey, Inc. and Tangi-Pac, LLC each or together referred to as RM), and to deny or cancel any glufosinate applications or registrations that rely on that registration. AHETF brings this Petition under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), 7 U.S.C. §§ 136-136y, as amended, EPA's FIFRA regulations, including 40 C.F.R. Part 152, the Petition Clause of the First Amendment, and the Administrative Procedure Act (APA), 5 U.S.C. § 555(b).

AHETF has submitted substantial data, which assess the potential risk associated with pesticide exposures experienced by agricultural workers and others who handle and apply pesticide products in various use "scenarios." RM applied for and obtained its RM Glufosinate-Ammonium Technical product, using the selective method of citation, and failed to cite AHETF data or provide AHETF with an offer-to-pay letter, despite RM's registration containing use scenarios dependent on the Task Force's data. As detailed below, AHETF submits this petition to cancel because RM has failed to comply with its obligation to compensate data owners for reliance on their studies in support of a registration. See generally 7 U.S.C. § 136a(c)(2).

EPA's attention to this petition is critical to protecting FIFRA's data compensation scheme by ensuring that RM (and future follow-on applicants) do not undermine the rights of



FIFRA Task Forces and other data owners like AHETF. Absent a complete and unqualified offer to pay from RM, EPA must cancel RM's registration.

## I. BACKGROUND

## A. History of AHETF

AHETF is a task force comprised of 27 pesticide companies, which was originally formed in 2001 to generate data required by EPA to assess the occupational risks associated with a wide-range of agricultural pesticide handler activities.<sup>1</sup> Prior to AHETF's formation, EPA relied exclusively on the Pesticide Handler Exposure Database (PHED) to support assessments of handler exposure to pesticides. In consultation with EPA, Health Canada, and the California Department of Pesticide Regulation, AHETF completed the design and development of the new agricultural handler exposure database to replace PHED. EPA has confirmed that AHETF data are the "most reliable" at addressing handler exposure issues for a wide-variety of scenarios and EPA routinely relies on AHETF data in making registration decisions.<sup>2</sup> EPA has replaced PHED data with AHETF data for a large number of scenarios in its Occupational Pesticide Handler Unit Exposure Surrogate Reference Table ("Surrogate Reference Table").<sup>3</sup>

## B. RM Glufosinate-Ammonium Technical Registration

RM applied for its RM Glufosinate-Ammonium Technical registration using the selective citation method on January 30, 2019, obtained the registration on February 11, 2020, and received approval of the transfer of the registration to its affiliate on March 12, 2020. See Exhibits A (RM Glufosinate-Ammonium Technical Product Label) and B (RM Glufosinate-Ammonium Technical Data Matrix). In support of that registration, RM submitted a table identifying the data it claims to have cited in support of its application and noting those studies, which it claims it has offered to pay compensation. See Exhibit B. RM's table does not include AHETF data.

Glufosinate is a broad spectrum herbicide that is registered for use on a wide range of crops, grasses, and ornamentals, and is applied through a variety of use scenarios. The RM Glufosinate-Ammonium Technical registration allows it to be formulated into a herbicide for: "weed control of emerged weeds in noncrop areas, control of weeds and grasses in residential

<sup>&</sup>lt;sup>1</sup> See EPA Pesticide Registration Notice 2007-3: The Agricultural Handlers Exposure Task Force, LLC, <a href="https://www.epa.gov/pesticide-registration/prn-2007-3-agricultural-handlers-exposure-task-force-llc">https://www.epa.gov/pesticide-registration/prn-2007-3-agricultural-handlers-exposure-task-force-llc</a>.

<sup>&</sup>lt;sup>2</sup> See, e.g., <a href="https://www.epa.gov/pesticide-science-and-assessing-pesticide-risks/occupational-pesticide-handler-exposure-data#ahetf">https://www.epa.gov/pesticide-science-and-assessing-pesticide-risks/occupational-pesticide-handler-exposure-data#ahetf</a>.

<sup>&</sup>lt;sup>3</sup> https://www.epa.gov/pesticide-science-and-assessing-pesticide-risks/exposure-surrogate-reference-table-pesticide-risk.



and industrial areas," in addition to any, "uses for which the U.S. EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration and uses for experimental purposes that are in compliance with U.S. EPA requirements." *See* Exhibit A.

RM's data matrix falls far short of the data required to support the registration – notably it cites only PHED for the occupational exposure data requirements, and not any AHETF data. EPA must therefore cancel RM's registration unless RM generates and submits its own data, or alternatively provides a valid offer to pay to AHETF that cites the omitted studies identified in Exhibit C (List of AHETF Compensable Data on Which RM Relies).

## C. RM Must Submit or Cite All Data Required to Support Its Registration

A fundamental requirement of FIFRA is that each application for registration must be supported by cited or submitted data sufficient to satisfy the no "unreasonable adverse effects" standard that governs every registration. FIFRA §§ 3(c)(1)(F), 3(c)(5). A follow-on applicant may cite, and EPA may rely upon, data submitted by another registrant within the preceding 15 years "only if the applicant has made an offer to compensate the original data submitter. . . ." FIFRA § 3(c)(1)(F)(iii) (emphasis added); see also 40 C.F.R. § 152.93(b)(3) (a follow-on applicant may cite another company's study without compensation only if "the study was originally submitted to the Agency on or before the date that is 15 years before the date of the application for which it is cited. . .").

The protection of the original data submitter's rights is so fundamental under FIFRA that "if [EPA] determines that an applicant for registration of a product has acted in any way that deprives an original data submitter of rights under FIFRA section 3(c)(1)(F), the Agency will take steps to deny the application or cancel the registration, as appropriate." 40 C.F.R. § 152.99(c)(3) (emphasis added). As EPA confirmed when it adopted the original implementing regulations in 1984, EPA "rel[ies] heavily on data submitters to monitor compliance" with the data-citation requirements under FIFRA and to submit petitions where insufficient data have been cited to support an application. To that end, the regulations provide data owners up to one year from the date the registration is granted to file petitions to cancel based on a follow-on's failure to submit or cite required data. 40 C.F.R. §152.99(b)(1). In response to such petitions, EPA must ensure that a complete offer to pay has been made which identifies each applicable data requirement and cites all the data necessary to satisfy each requirement and to demonstrate no unreasonable adverse effects. See 40 C.F.R. §8 152.90, 152.93(b)(2)(ii).

<sup>&</sup>lt;sup>4</sup> EPA, Pesticide Programs; Pesticide Registration and Classification Procedures; Application Procedures to Ensure Protection of Data Submitters' Rights, 49 Fed. Reg. 30884, 30899 (Aug. 1, 1984); 40 C.F.R. § 152.99(b).



## D. Data Required for Registration

The data required to support a given registration depends on the characteristics of the pesticide active ingredient and the uses included in the registration. The starting point is 40 C.F.R. Part 158, which sets forth "the minimum data and information EPA typically requires to support an application for pesticide registration. . . ." 40 C.F.R. § 158.1(b)(1). Part 158 indicates whether certain studies are typically required or conditionally required to support registration, based on the proposed uses of the pesticide product. Data identified as "conditionally required" under Part 158 become "required" when conditions set forth in the test notes are satisfied. See, e.g., 40 C.F.R. § 158.630(e) (test notes for conditionally required ecotoxicology data). EPA can and frequently does require additional data beyond the studies identified in Part 158 to support registration of a given pesticide product. 40 C.F.R. § 158.30(a); see also id. § 158.1, § 158.130(a).

All of the AHETF data are of a single type – human exposure data – which are required pursuant to 40 C.F.R. Part 158, Subpart K if certain toxicity and exposure criteria are met. RM already acknowledged that this type of data is required for its registration by including the applicator exposure requirements in 40 C.F.R. § 158.1020 in its data matrix. *See* Exhibit B at 8-9 (including guidelines 875.1100 through 875.1700).

## E. AHETF's Right to File this Petition

AHETF brings this petition because RM chose to use the selective citation process but failed to make the required offer-to-pay associated with the data necessary to support its registration. As the data owner, AHETF's only recourse under the regulations is to file this petition asking EPA to cancel RM's registration. See 40 C.F.R. § 152.99(a)(2).<sup>5</sup>

## II. ARGUMENT

The RM Glufosinate-Ammonium Technical registration and all registrations reliant upon it must be canceled because RM has not offered to compensate AHETF for the data required to support a glufosinate technical registration. Specifically, RM failed to offer to pay for 35 occupational exposure studies, which are necessary to support the registration under the standard described above. A failure to cancel RM's registration will endanger both AHETF's data rights and the delicate balance created by FIFRA's data compensation schemes. Under EPA's regulations, if an applicant fails to submit an offer to pay at all (as RM did here), or even if they

<sup>&</sup>lt;sup>5</sup> Additionally, AHETF is also entitled to petition EPA as an "interested person" under the Administrative Procedure Act, and EPA has acknowledged its obligation to consider petitions to cancel pursuant to the Petition Clause of the First Amendment to the United States Constitution. See 5 U.S.C. § 555(b); Block v. Sec. & Exch. Comm'n, 50 F.3d 1078, 1085 (D.C. Cir. 1995) (noting that Section 555(b) of the APA "is universally understood to establish the right of an interested person to participate in an on-going agency proceeding").



submit a deficient offer, EPA may not grant an application or allow a granted registration to continue. See 40 C.F.R. §§ 152.112, 152.113(a)(3), 152.114(c). Rather, EPA has just one available course of action to protect a data owner's rights — "the Agency will take steps to deny the application or cancel the registration, as appropriate." 40 C.F.R. § 152.99(c)(3).

## A. RM Failed to Cite Studies Required by EPA to Support Labeled Uses

AHETF exposure data addresses various occupational handler exposure scenarios, which are combinations of mixing, loading and/or application of pesticide products. To determine what AHETF scenarios the RM Glufosinate-Ammonium Technical registration implicates, it is helpful to reference an example end-use product formulated from RM Glufosinate-Ammonium Technical. For example, the product label for RM Glufosinate, one of RM's end-use glufosinate products, implicates the following occupational exposure scenarios based on its use instructions:

- Mixing/loading of liquids in support of aerial, groundboom, and spot/directed spray applications;
- Application aerially;
- Application with ground boom equipment;
- Mixing/loading/application with mechanically pressurized handgun sprayers; and
- Mixing/loading/application with backpack sprayers.

See Exhibit D (RM Glufosinate Product Label). Within the body of occupational handler exposure data developed in consultation with the EPA and submitted to the EPA by AHETF, 35 studies relate to these five exposure scenarios, which are set forth in Exhibit C.

At the time of RM's application, EPA had incorporated AHETF data for these occupational exposure scenarios within the Surrogate Reference Table. *See* Exhibit E (Occupational Pesticide Handler Unit Exposure Surrogate Reference Table, June 2018). Despite this, RM did not cite any AHETF data in its data matrix, or provide AHETF with an offer to pay.

In its data matrix dated January 30, 2019, RM erroneously relies exclusively on PHED data for the occupational exposure data requirements noting, "PHED data were used to determine Short/Intermediate Term Agricultural Handler Exposure and Risk Estimates for Glufosinate Ammonium (Spot/Directed Spray Applications) in the Human Health RA," with Human Health RA most likely referring to the January 24, 2013 Glufosinate Ammonium Human Health Risk Assessment for Registration Review. In so doing, RM fails to acknowledge the additional applicable exposures for mixing, loading and aerial and groundboom applications. Moreover, this statement does not consider that EPA would have relied on the most recent version of the Surrogate Reference Table available at the time of RM's submission to assess occupational exposure, that being the June 2018 version and not the older and outdated September 2011



version that was referenced in the Registration Review Human Health Risk Assessment. Therefore, EPA should have required RM to cite AHETF data in support of its application.

AHETF respectfully requests that EPA issue a written ruling confirming that AHETF data as set forth in Exhibit C are required to support RM's registration without delay.

## III. CONCLUSION

RM's failure to offer to pay for 35 studies necessary to satisfy applicable data requirements requires EPA to cancel the RM Glufosinate-Ammonium Technical registration. EPA should not allow RM to retain its registration unless RM promptly satisfies all of the applicable data requirements by citing and offering to pay AHETF, at a minimum, for the 35 required studies identified in Exhibit C to this Petition. These data are required to support the labeled use scenarios and EPA should, at this time, confirm that these data must be cited.

AHETF requests that if RM contends that any of the data identified as required in Exhibit C are not necessary to support the registration of RM Glufosinate-Ammonium Technical, RM should be required to provide its position and the factual and legal bases therefore in a formal opposition to this Petition, and that AHETF be provided an opportunity to submit a reply before EPA rules on this petition.

In filing this Petition, AHETF does not waive any of the rights available to it in any forum to seek further relief under FIFRA, the Administrative Procedure Act, or any other source of law.

Thank you for your consideration.

Respectfully submitted,

Mackenzie S. Schoonmaker

Markenji School

Counsel for AHETF

**Enclosures** 

cc (via email):

Erin Koch and Michele Knorr, Office of General Counsel, U.S. Environmental Protection Agency (koch.erin@epa.gov) and (knorr.michele@epa.gov)

Marietta Echeverria, Acting Director, Registration Division, U.S. Environmental Protection Agency (echeverria.marietta@epa.gov)

Michael Massey, Ragan and Massey, Inc.

Janelle Kay, Pyxis Regulatory Consulting (Agent for RM)

David Johnson, AHETF Task Force Manager

Jeff Burkey, AHETF Data Compensation Consultant

## **CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that on this 10th day of February, 2021, true and correct copies of the foregoing Petition to Cancel RM Glufosinate-Ammonium Technical was served upon the following by e-mail:

Mr. Joseph E. Cole Associate General Counsel Office of the General Counsel U.S. Environmental Protection Agency Cole.JosephE@epa.gov

Michael Massey Owner Ragan and Massey, Inc. mikem@raganandmassey.com

Mackenzie S. Schoonmaker

Markenji School

# Index of Exhibits Submitted in Support of AHETF's Petition to Cancel RM Glufosinate-Ammonium Technical

Exhibt A	RM Glufosinate-Ammonium Technical Product Label, dated February 11, 2020
Exhibit B	RM Glufosinate-Ammonium Technical Data Matrix, dated January 30, 2019
Exhibit C	List of AHETF Compensable Data on Which RM Relies
Exhibit D	RM Glufosinate Product Label, dated November 18, 2019
Exhibit E	Occupational Pesticide Handler Unit Exposure Surrogate Reference Table, dated June 2018

# **EXHIBIT** A



### U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

84009-34

Date of Issuance:

EPA Reg. Number:

2/11/20

NOTICE OF PESTICIDE:

X Registration Reregistration (under FIFRA, as amended) Term of Issuance: Unconditional

Name of Pesticide Product:

RM Glufosinate-Ammonium Technical

Name and Address of Registrant (include ZIP Code):

Ragan and Massey, Inc. c/o Pyxis Regulatory Consulting Inc. 4110 136th St. Ct. NW Gig Harbor, WA 98332

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

- 1. Submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
- 2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 84009-34."

Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:	Date:
Ein My	
Erik Kraft, Product Manager 24	2/11/20
Fungicide Herbicide Branch, Registration Division (7505P)	

EPA Form 8570-6

Page 2 of 2 EPA Reg. No. 84009-34 Decision No. 548909

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 01/03/2019
- Alternate CSF 1 dated 01/03/2019
- Alternate CSF 2 dated 01/03/2019

If you have any questions, please contact BeWanda Alexander by phone at (703)347-0313, or via email at alexander.bewanda@epa.gov.

Enclosure

### RM Glufosinate-Ammonium Technical

ACTIVE INGREDIENT:	By Wt.
Glufosinate-ammonium	95.1%
OTHER INGREDIENTS:	4.9%
TOTAL	100.0%

## KEEP OUT OF REACH OF CHILDREN CAUTION

or clothing: • C  If inhaled: • M • If p • C  If swallowed: p • E  If in eyes: • F	FIRST AID					
	If on skin • Take off contaminated clothing.					
	or	<ul> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> </ul>				
	clothing:	Call a poison control center or doctor for treatment advice.				
	If inhaled:	Move person to fresh air.				
		<ul> <li>If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> </ul>				
		<ul> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>				
		<ul> <li>Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow.</li> </ul>				
		Do not induce vomiting unless told to do so by a poison control center or doctor.				
		<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>				
	If in eyes:	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.				
		• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.				
		<ul> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>				

#### HOTLINE NUMBER

Have the product container or label with you when calling a Poison Control Center or doctor, or when going for treatment. For non-emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Time (NPIC Web site: www.npic.orst.edu).

**NOTE TO PHYSICIAN:** Glufosinate-ammonium is a glutamine synthetase inhibitor and can interfere with neurotransmitter function. Symptoms may be delayed by up to 48 hours following ingestion. There is no specific antidote. If ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

For Chemical Spill, Leak, Fire, or Exposure, call CHEMTREC 1-800-424-9300

#### Manufactured for:

Ragan & Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, LA 70454 EPA Reg. No. 84009-EPA Est. No. Net Weight: lbs (kg) Lot No.: See container

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Wash thoroughly after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### **ENVIRONMENTAL HAZARDS**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the Environmental Protection Agency.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not use this product until you have read the entire label. This manufacturing-use product may be used only for formulation into a herbicide for: Weed control of emerged weeds in noncrop areas, control of weeds and grasses in residential and industrial areas, uses for which the U.S. EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration and uses for experimental purposes that are in compliance with U.S. EPA requirements. This product may be used to formulate products for specific use(s) not listed on this label if the formulator, user group, or grower has complied with U.S. EPA data submission requirements regarding the support of such use(s).

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE STORAGE: Store in original container and keep closed. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING**: Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

### WARRANTY AND LIMITATION OF DAMAGES

Ragan and Massey, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the complete Directions For Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein. Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise. Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this Warranty and Limitation of Damages which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

[EPA approval date]



# EXHIBIT B



Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX						
Date Jan. 30, 2019	EPA Reg No./File Symbol 84009-	Page 1 of 19				
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454	Product RM Glufosinate-Ammonium	echnical				
Ingredient: Glufosinate-ammonium (CAS No. 77182-82-2; Chemical Code: 128850)						

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUI	REMENTS				
830.1550	Product identity and composition	50734401	Ragan and Massey, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	50734401	Ragan and Massey, Inc.	OWN	
830.1620	Description of the Production Process	50734401	Ragan and Massey, Inc.	OWN	
830.1650	Description of the Formulation Process				Not applicable
830.1670	Discussion of Formation of Impurities	50734401	Ragan and Massey, Inc.	OWN	
830.1700	Preliminary Analysis	50734402	Ragan and Massey, Inc.	OWN	
		50734403	Ragan and Massey, Inc.	OWN	
		50734404	Ragan and Massey, Inc.	OWN	
830.1750	Certified Limits	50734401	Ragan and Massey, Inc.	OWN	
830.1800	Enforcement Analytical Method	50734402	Ragan and Massey, Inc.	OWN	
		50734403	Ragan and Massey, Inc.	OWN	
		50734404	Ragan and Massey, Inc.	OWN	
830.6302	Color	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.6303	Physical State	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.6304	Odor	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal lons	50734415	Ragan and Massey, Inc.	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	50734408	Ragan and Massey, Inc.	OWN	
Signature			Name and Title		Date
am n	Tille		Ann M. Tillman, PhD   Agent		Jan. 30, 2019

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	DATA M	ATRIX			
Date <b>Jan.</b> 30, 2019			EPA Reg No./File Symbol 84009-		Page 2 of 19
Applicant's/Registrant's Name & Add	Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454  Product  RM Glufosinate-Ammonium Technic		ical		
Ingredient: Glufosinate-ammoniu	ım (CAS No. 77182-82-2; Chemical Code: 128850)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6315	Flammability	50734416	Ragan and Massey, Inc.	OWN	Waiver <sup>2</sup>
830.6316	Explodability	50734409	Ragan and Massey, Inc.	OWN	
830.6317	Storage Stability	50734416	Ragan and Massey, Inc.	OWN	PRN 92-5 <sup>3</sup>
830.6319	Miscibility	50734416	Ragan and Massey, Inc.	OWN	Not applicable
830.6320	Corrosion Characteristics	50734416	Ragan and Massey, Inc.	OWN	PRN 92-5 <sup>3</sup>
830.6321	Dielectric Breakdown Voltage	50734416	Ragan and Massey, Inc.	OWN	Not required <sup>5</sup>
830.7000	pH	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.7050	UV/Visible Absorption	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.7100	Viscosity	50734416	Ragan and Massey, Inc.	OWN	Not applicable
830.7200	Melting Point/Melting Range	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.7220	Boiling Point/Boiling Range	50734416	Ragan and Massey, Inc.	OWN	Not applicable
830.7300	Density/Relative Density/Bulk Density	50734405	Ragan and Massey, Inc.	OWN	
		50734415	Ragan and Massey, Inc.	OWN	
830.7370	Dissociation Constants in Water	50734413	Ragan and Massey, Inc.	OWN	
830.7520	Particle size, fiber length, and diameter distribution	50734416	Ragan and Massey, Inc.	OWN	Waiver <sup>8</sup>
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50734415	Ragan and Massey, Inc.	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550
Signature			Name and Title		Date
A I	Keller		Ann M. Tillman, PhD   Agent		Jan. 30, 2019

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	DATA MA	ATRIX			
Date Jan. 30, 2019			EPA Reg No./File Symbol 84009-		Page 3 of 19
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, LA 70454			Product  RM Glufosinate-Ammonium Technical		
Ingredient: Glufosinate-ammoniu	ım (CAS No. 77182-82-2; Chemical Code: 128850)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	50734415	Ragan and Massey, Inc.	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	50734415	Ragan and Massey, Inc.	OWN	
870.1100	Acute oral toxicity – rat	00142430 00142431		OLD OLD	See endnote <sup>9</sup>
870.1200	Acute dermal toxicity – rat	00142432 00142436		OLD OLD	See endnote <sup>10</sup>
070.1200	Acute doffinal toxionsy Tat	00142437		OLD	oce chance
870.1300	Acute inhalation toxicity – rat	00151496 00151497		OLD OLD	See endnote <sup>11</sup>
870.2400	Eye irritation	00142438		OLD	See endnote <sup>12</sup>
870.2500	Skin irritation	00142438		OLD	See endnote <sup>13</sup>
870.2600	Skin sensitization	00142439		OLD	See endnote <sup>14</sup>
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	00142450		OLD	See endnote <sup>15</sup>
		00142451		OLD	
Signature			Name and Title		Date
an h	Tille		Ann M. Tillman, PhD   Agent		Jan. 30, 2019

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	DATA	MATRIX			
Date Jan. 30, 2019	EPA Reg No./File Symbol 84009-			Page 4 of 19	
Applicant's/Registrant's Name & Addres	Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454		Product  RM Glufosinate-Ammonium Technica		nical
	(CAS No. 77182-82-2; Chemical Code: 128850)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2200	Acute Avian Dietary Toxicity	00150988		OLD	See endnote <sup>16</sup>
		00150989		OLD	
850.2400	Wild Mammal Toxicity				See 870 series
850.2300	Avian Reproductive Toxicity	40345649		OLD	See endnote <sup>17</sup>
		40345650		OLD	
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00142454		OLD	See endnote <sup>18</sup>
		00142455		OLD	
		00144338		OLD	
		00159913		OLD	
		00159914		OLD	
850.1010	Freshwater Invertebrate Toxicity	00142456		OLD	See endnote <sup>19</sup>
	,	00159915		OLD	
		00144339		OLD	
		00145067		OLD	
850.1025, 850.1035, 850.1045,	Acute Toxicity Estuarine and Marine Organisms	41396104		OLD	See endnote <sup>20</sup>
850.1055, 850.1075	Note Toxicity Established and Marine Organisms	41396105		OLD	oco chanote
		41396107		OLD	
		41396108		OLD	
		41396109		OLD	
		41396110		OLD	
				OLD	
0.		42262403	N LTW	OLD	
Signature			Name and Title	4	Date
an mi	Julea		Ann M. Tillman, PhD   A	agent	Jan. 30, 2019

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850.3020

850.3030

850.3040

870.6100

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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	DATA N	IATRIX			
Date <b>Jan.</b> 30, 2019			EPA Reg No./File Symbol 840	09-	Page 5 of 19
Applicant's/Registrant's Name & Addres	s Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454		Product RM Glufos	sinate-Ammonium Tech	nical
Ingredient: Glufosinate-ammonium	(CAS No. 77182-82-2; Chemical Code: 128850)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	40501010		OLD	See endnote <sup>21</sup>
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required <sup>22</sup>
850.1400	Fish Early Life Stage (Freshwater)				Not required <sup>23</sup>
850.1400	Fish Early Life Stage (Saltwater)				Not required <sup>24</sup>
850.1500	Life Cycle Fish				Not required <sup>25</sup>
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification,	40501017		OLD	See endnote <sup>26</sup>
	Toxicity	41323130		OLD	
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrate Freshwater				Not required

Signature	Name and Title	Date
	Ann M. Tillman, PhD   Agent	Jan. 30, 2019
Chu M. Seller		

40345654

41364002

and Marine

Honey Bee Acute Contact Toxicity

Delayed Neurotoxicity (Acute) - Hen

Field Testing for Pollinators

Honeybee Toxicity of Residues on Foliage

OLD

OLD

See endnote<sup>27</sup>

Not required

Not required

Not required



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		DATA MATRIX			
Date Jan. 30, 2019			EPA Reg No./File Symbol 84009-		Page 6 of 19
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454			Product RM Glufosinate	e-Ammonium Tech	nnical
Ingredient: Glufosinate-ammoniu	ım (CAS No. 77182-82-2; Chemical Code: 128850)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.6200	Acute Neurotoxicity – Rat	45190701		OLD	See endnote <sup>28</sup>
		45190702		OLD	
		45190703		OLD	
		45190704		OLD	
870.3100	90-Day Oral: Rodent	40345609		OLD	See endnote <sup>29</sup>
		44076201		OLD	
		44076202		OLD	
		44076203		OLD	
		44076206		OLD	
		44076207		OLD	
		44068501		OLD	
		45179103		OLD	
870.3150	90-Day Oral: Non-Rodent	40345608		OLD	See endnote <sup>30</sup>
		44068502		OLD	
870.3200	21/28-Day Dermal Toxicity	40345605		OLD	See endnote <sup>31</sup>
870.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity	40345606		OLD	See endnote <sup>32</sup>
		47058101	Bayer CropScience LP	PAY	
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	45179101		OLD	See endnote <sup>33</sup>
		45179102		OLD	
		45297001		OLD	
Signature	·	•	Name and Title	·	Date
1	1. 2.		Ann M. Tillman, PhD   Agent		Jan. 30, 2019
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	DATA M	ATRIX							
Date Jan. 30, 2019			EPA Reg No./File Symbol 84009-		Page 7 of 19				
Applicant's/Registrant's Name & Ar	ddress Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454	Product RM Glufosinate-Ammonium Te		-Ammonium Tech	chnical				
Ingredient: Glufosinate-ammonium (CAS No. 77182-82-2; Chemical Code: 128850)									
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note				
870.4100	Chronic Oral Rodent	40345607		OLD	See endnote <sup>34</sup>				
		41144701		OLD					
		44539501		OLD					
870.4200	Carcinogenicity	40345607		OLD	See endnote35				
		40345609		OLD					
		41144701		OLD					
		41144702		OLD					
		44539501		OLD					
870.3700	Reproduction/Developmental Toxicity Screening Test	00142445		OLD	See endnote <sup>36</sup>				
		00142446		OLD					
		00151499		OLD					
		00151500		OLD					
		40345610		OLD					
		40345611		OLD					
		41144703		OLD					
		43829405		OLD					
		44076204		OLD					
		44076205		OLD					
		44076209		OLD					
870.3800	2-Generation Reproduction: Rat	40345612		OLD	See endnote37				
870.6300	Developmental Neurotoxicity Study	46455701	Bayer CropScience LP	PAY	See endnote <sup>38</sup>				
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Date Jan. 30, 2019			EPA Reg No./File Symbol 84009-		Page 8 of 19			
Applicant's/Registrant's Name & Addres	s Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454		Product RM Glufosinate-Ammonium Ted		chnical			
Ingredient: Glufosinate-ammonium (CAS No. 77182-82-2; Chemical Code: 128850)								
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note			
870.5100	Bacterial Reverse Mutation Test	00142440 (AC072962)		OLD	See endnote <sup>39</sup>			
870.5300, 870.5375	In vitro Mammalian Cell Assay	40345616		OLD	See endnote <sup>40</sup>			
870.5385, 870.5395, 870.5450, 870.5550	In vivo Cytogenetics and Other Effects	00142441 (AC072962)		OLD	See endnote <sup>41</sup>			
		40345614		OLD				
		41144704		OLD				
870.7485	Metabolism and Pharmacokinetics	40345640		OLD	See endnote <sup>42</sup>			
		40345642		OLD				
		43766913		OLD				
		43766914		OLD				
		43778402		OLD				
870.7200	Companion Animal Safety				Not required			
870.7600	Dermal Penetration	40345620		OLD	See endnote <sup>43</sup>			
		45922103		OLD				
870.7800	Immunotoxicity	48491101	Bayer CropScience LP	PAY	See endnote <sup>44</sup>			
875.1100	Dermal Exposure – Outdoor		PHED	PL	See endnote <sup>45</sup>			
875.1200	Dermal Exposure - Indoor				Not required			
875.1300	Inhalation Exposure – Outdoor		PHED	PL	See endnote <sup>45</sup>			
875.1400	Inhalation Exposure - Indoor				Not required			
875.1500	Biological Monitoring		PHED	PL	See endnote <sup>45</sup>			
Signature			Name and Title		Date			
am m.	filler		Ann M. Tillman, PhD   Agent		Jan. 30, 2019			

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Date Jan. 30, 2019		EPA Reg No./File Symbol 84	1009-	Page 9 of 19	
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454			Product RM Glufo	osinate-Ammonium Tech	nical
Ingredient: Glufosinate-ammoniu	ım (CAS No. 77182-82-2; Chemical Code: 128850)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1600	Data Reporting and Calculations		PHED	PL	See endnote <sup>45</sup>
875.1700	Product Use Information		PHED	PL	See endnote <sup>45</sup>
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	45251401		OLD	
875.2200	Soil Residue Dissipation	44972201		OLD	
		44972202		OLD	
		44972203		OLD	
		44972204		OLD	
		44972205		OLD	
		44972206		OLD	
		44972207		OLD	
		44983501		OLD	
		45262901		OLD	
		45262902		OLD	
		45663701		OLD	
		45663702		OLD	
		45663703		OLD	
		46042401		OLD	
		46042402		OLD	
875.2400	Dermal Exposure				See 875.2200
875.2500	Inhalation Exposure				See 875.2200
Signature			Name and Title	<u> </u>	Date
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		DATA MATRIX			
Date <b>Jan.</b> 30, 2019		EPA Reg No./File Symbol 84009- Page 10 of		Page 10 of 19	
Applicant's/Registrant's Name & Addr	ess		Product		
Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454		RM Glufosinate-Ammonium Technical		ical	
Ingredient: Glufosinate-ammoniu	m (CAS No. 77182-82-2; Chemical Code: 1288	50)			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
975 2600	Riological Monitoring				Soc 975 2200

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2600	Biological Monitoring				See 875.2200
875.2700	Product Use Information				See 875.2200
875.2800	Descriptions of Human Activity				See 875.2200
875.2900	Data Reporting and Calculations				See 875.2200
875.3000	Nondietary Ingestion Exposure				See 875.2200

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		DATA MATRIX		
Date Jan. 30, 2019		EPA Reg No./File Symbol 84009-	Page 11 of 19	
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454		Product RM Glufosinate-Ammonium Technical		
ngredient: Glufosinate-ar	mmonium (CAS No. 77182-82-2; Chemical Code: 128	3850)		
201-1	Droplet Size Spectrum	42565901	OLD	
		42608401	OLD	
		42907401	OLD	
		43254001	OLD	
		43485601	OLD	
		43485602	OLD	
		43485603	OLD	
		43485604	OLD	
		43493801	OLD	
		43493802	OLD	
		43508001	OLD	
		43535801	OLD	
		43535802	OLD	
		43657601	OLD	
		43657602	OLD	
		43665401	OLD	
		43665402	OLD	
		43757801	OLD	
		43757802	OLD	
		43766501	OLD	
		43766502	OLD	
		43766503	OLD	
		43766504	OLD	
Signature			Name and Title	Date
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Date <b>Jan.</b> 30, 2019			EPA Reg No./File Symbol 84009-	Page 12 of 19
		Product		
		RM Glufosinate-Ammoniu	um recnnicai	
ngredient: Glufosinate-ammor	nium (CAS No. 77182-82-2; Chemical Code: 12885	0)		
201-1	Droplet Size Spectrum (cont.)	43781101	OI	LD
		43803501	OI	LD
		43832101	OI	LD
		43832102	OI	LD
		43845501	OI	LD
		43845901	OI	LD
		43925701	OI	LD
		43953001	OI	LD
		43953002	OI	LD
		44010201	OI	LD
		44070001	OI	LD
		44100901	OI	LD
		44134101	OI	LD
		44178701	OI	LD
		44310401	OI	LD
		44640801	OI	LD
		44640901	OI	LD
		44641001	OI	LD
		44696901	OI	LD
		44747401	OI	LD
		44763001	OI	LD
		44878601	OI	LD
		44908901	OI	LD
Signature			Name and Title	Date
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		DATA MATRIX			
Date Jan. 30, 2019			EPA Reg No./File Symbol 84	009-	Page 13 of 19
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454			Product RM Glufosinate-Ammonium Technical		
Ingredient: Glufosinate-ammoniu	ım (CAS No. 77182-82-2; Chemical Code: 12885	0)			
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum (cont.)	45536001		OLD	
202-1	Droplet Size Spectrum				See 201-1

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum (cont.)	45536001		OLD	
202-1	Droplet Size Spectrum				See 201-1
850.4100	Tier 1: Seedling Emergence	41396111		OLD	See endnote <sup>46</sup>
		48531301	Bayer CropScience LP	PAY	
		48718501	Bayer CropScience LP	PAY	
850.4150	Tier 1: Vegetative Vigor	41396112		OLD	See endnote <sup>47</sup>
		41396113		OLD	
		47542602	Bayer CropScience LP	PAY	
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	40345653		OLD	See endnote <sup>48</sup>
		42262404		OLD	
		47542603	Bayer CropScience LP	PAY	
		48444816	Bayer CropScience LP	PAY	
		48444817	Bayer CropScience LP	PAY	
850.4100	Tier 2: Seedling Emergence	41396111		OLD	See endnote <sup>49</sup>
		48531301	Bayer CropScience LP	PAY	
		48718501	Bayer CropScience LP	PAY	
850.4150	Tier 2: Vegetative Vigor	41396112		OLD	See endnote <sup>50</sup>
		41396113		OLD	
		47542602	Bayer CropScience LP	PAY	

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DATA MATRIX					
Date Jan. 30, 2019	EPA Reg No./File Symbol 84009-	Page 14 of 19			
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454	Product RM Glufosinate-Ammoniu	m Technical			
Ingredient: Glufosinate-ammonium (CAS No. 77182-82-2; Chemical Code: 128850)					

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	40345653		OLD	See endnote <sup>51</sup>
		42262404		OLD	
		47542603	Bayer CropScience LP	PAY	
		48444816	Bayer CropScience LP	PAY	
		48444817	Bayer CropScience LP	PAY	
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	40345656		OLD	See endnote <sup>52</sup>
835,2240	Photodegradation in Water	40345657		OLD	See endnote <sup>53</sup>
	J	41323115		OLD	
835.2410	Photodegradation in Soil	40345658		OLD	See endnote <sup>54</sup>
	_	41920102		OLD	
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	40345659		OLD	See endnote <sup>55</sup>
		41323118		OLD	
		41323119		OLD	
		41920103		OLD	

Signature	Name and Title	Date
am Miseller	Ann M. Tillman, PhD   Agent	Jan. 30, 2019

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	DA <sup>*</sup>	TA MATRIX				
Date <b>Jan</b> . 30, 2019			EPA Reg No./File Symbol 84009-		Page 15 of 19	
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454			Product RM Glufosinate-Ammonium Tech		nical	
Ingredient: Glufosinate-ammon	ium (CAS No. 77182-82-2; Chemical Code: 128850)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
835.4200	Anaerobic Soil Metabolism	40501014		OLD	See endnote <sup>56</sup>	
		41323119		OLD		
		41323120		OLD		
		41920103		OLD		
835.4300	Aerobic Aquatic Metabolism	40345660		OLD	See endnote <sup>57</sup>	
	·	45204401		OLD		
		45204402		OLD		
835.4400	Anaerobic Aquatic Metabolism	46258601	Bayer CropScience LP	PAY	See endnote <sup>58</sup>	
835.1230, 835.1240	Leaching/Adsorption/Desorption	40345662		OLD	See endnote <sup>59</sup>	
		41323121		OLD		
835.1410	Volatility – Laboratory	41323122		OLD	See endnote <sup>60</sup>	
		41920104		OLD		
835.8100	Volatility – Field				Not required	
835.6100	Soil Field Dissipation Study	40345663		OLD	See endnote <sup>61</sup>	
		40345664		OLD		
		40345665		OLD		
		41323124		OLD		
		43110402		OLD		
		43766915		OLD		
		43766916		OLD		
835.6200	Aquatic Sediment Field Dissipation Study				Not required <sup>62</sup>	
Signature			Name and Title		Date	
am)	Willer		Ann M. Tillman, PhD   Agent		Jan. 30, 2019	

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

**Agency Internal Use Copy** 



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DATA MATRIX					
Date Jan. 30, 2019	EPA Reg No./File Symbol 84009-	Page 16 of 19			
Applicant's/Registrant's Name & Address Ragan and Massey, Inc. 101 Ponchatoula Parkway Ponchatoula , LA 70454  Ragan and Massey, Inc. 101 Ponchatoula , LA 70454  Product RM Glufosinate-Ammonium Technical		cal			
Ingredient: Glufosinate-ammonium (CAS No. 77182-82-2; Chemical Code: 128850)					

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	40345666		OLD	See endnote <sup>63</sup>
		41323123		OLD	
		41920106		OLD	
		43766915		OLD	
		47542606	Bayer CropScience LP	PAY	
		47542607	Bayer CropScience LP	PAY	
		49055301	Bayer CropScience LP	PAY	

	Date
)   Agent	Jan. 30, 2019
	D   Agent

#### **Endnotes for Data Matrix for RM Glufosinate-Ammonium Technical**

- 830.1650 These data are not required for registration of a technical product. See 830.1620.
- 830.6315 Ragan and Massey, Inc. requests a waiver from the requirement of this data requirement since RM Glufosinate-Ammonium Technical is a solid and does not contain flammable components. Please refer to the Confidential Statement of Formula for RM Glufosinate-Ammonium Technical.
- 830.6317, 830.6320 Per PR Notice 92-5, storage stability and corrosion characteristics data are not required to be submitted unless specifically requested by the Agency. Ragan and Massey, Inc. will submit these data if required as a condition of registration.
- 830.6319 This data requirement is required when the product is an end use product and an emulsifiable liquid to be diluted with petroleum solvents. RM Glufosinate-Ammonium Technical is not an end-use product to be diluted with petroleum solvents prior to application. Therefore, these data are not applicable to RM Glufosinate-Ammonium Technical.
- 830.6321 These data are not required for registration of a technical product and are not applicable to RM Glufosinate-Ammonium Technical.
- 830.7100 These data are required when the product is a liquid. RM Glufosinate-Ammonium Technical is a solid and these data are not required.
- <sup>7</sup> **830.7220 -** This guideline is not applicable to solid products.
- <sup>8</sup> **830.7520 -** Ragan and Massey, Inc. is seeking a waiver for this data requirement for RM Glufosinate-Ammonium Technical because the product is not water insoluble and it is not a fibrous material.
- 870.1100 The studies cited are acceptable and satisfy the data requirement as per the July 25, 2012 Glufosinate Ammonium Updated Human Health Risk Assessment for the Proposed New Use of Glufosinate Ammonium in/on Citrus Fruit (Crop Group 10), Pome Fruit (Crop Group 11), Stone Fruit (Crop Group 12), Olives and Sweet Corn (DP Barcode D387413) (Human Health RA).
- 870.1200 The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- <sup>11</sup> **870.1300** The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- <sup>12</sup> **870.2400** The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- <sup>13</sup> **870.2500** The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- 14 870.2600 The study cited is acceptable and satisfies the data requirement as per the Human Health RA
- 850.2100 The studies cited are acceptable and satisfy the data requirement as per the Sept. 12, 2014 Environmental Fate and Ecological Risk Assessment for the Registration Review of Glufosinate (EFED RA). Passerine data have not been submitted and these data were not required in the Registration Review DCI.
- 16 850.2200 The studies cited are acceptable and satisfy the data requirement as per the EFED RA.
- 850.2300 The studies cited are acceptable and satisfy the data requirement as per the EFED RA. Newly submitted data that are duplicative of previously submitted data are not cited.
- <sup>18</sup> **850.1075** The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA. Newly submitted data that are duplicative of previously submitted data are not cited.
- <sup>19</sup> **850.1010** The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA. Newly submitted data that are duplicative of previously submitted data are not cited.
- <sup>20</sup> **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA.

#### **Endnotes for Data Matrix for RM Glufosinate-Ammonium Technical**

- <sup>21</sup> **850.1300** The study cited is acceptable and satisfies the data requirement as per the EFED RA. Newly submitted data that are duplicative of previously submitted data are not cited.
- <sup>22</sup> **850.1350** These data have not been submitted nor are required for Registration Review as per the EFED RA.
- <sup>23</sup> **850.1400** These data have not been submitted nor are required for Registration Review as per the EFED RA.
- 24 850.1400 These data have not been submitted nor are required for Registration Review as per the EFED RA.
- 25 850.1500 These data have not been submitted nor are required for Registration Review as per the EFED RA.
- 850.1710, 850.1730, 850.1850 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA.
- 850.3020 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA.
- <sup>28</sup> **870.6200** The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- 29 870.3100 The studies cited are acceptable and satisfy the data requirement as per the Human Health RA
- 30 870.3150 The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- 31 870.3200 The study cited is acceptable and satisfies the data requirement as per the Human Health RA
- <sup>32</sup> **870.3465** The studies cited are acceptable or supplemental but satisfy the data requirement as per the Human Health RA.
- <sup>33</sup> **870.6200** The studies cited are acceptable and satisfy the data requirement as per the Human Health RA. Unacceptable data are not cited.
- 870.4100 The studies cited are acceptable or supplemental but satisfy the data requirement as per the Human Health RA. Chronic dog data are not cited as these data are no longer required per the 2007 revisions to 40 CFR Part 158.
- 870.4200 The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- 870.3700 The studies cited are acceptable and satisfy the data requirement as per the Human Health RA. Unacceptable data are not cited.
- 870.3800 The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- 38 870.6300 The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- 39 870.5100 The study cited is acceptable and satisfies the data requirement as per the Human Health RA
- 870.5300, 830.5375 The study cited is acceptable and satisfies the data requirement as per the Human Health RA. Note: the incorrect MRID number was listed in the Human Health RA; the correct MRID number is cited.
- <sup>41</sup> **870.5385, 870.5395, 870.5450, 870.5550** The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.

#### **Endnotes for Data Matrix for RM Glufosinate-Ammonium Technical**

- <sup>42</sup> **870.7485** The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- <sup>43</sup> **870.7600** The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- 44 870.7800 The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- <sup>45</sup> **875.1100**, **875.1300**, **875.1500**, **875.1600**, **875.1700** PHED data were used to determine Short/Intermediate Term Agricultural Handler Exposure and Risk Estimates for Glufosinate Ammonium (Spot/Directed Spray Applications) in the Human Health RA.
- <sup>46</sup> **850.4100** The studies cited are supplemental but appear to satisfy the data requirement as per the EFED RA.
- <sup>47</sup> **850.4150** The studies cited are supplemental but appear to satisfy the data requirement as per the EFED RA.
- <sup>48</sup> **850.4400**, **850.4500** The studies cited are acceptable or supplemental but appear to satisfy the data requirement as per the EFED RA. Additional data that were submitted, but not required, are not cited.
- <sup>49</sup> **850.4100** The studies cited are supplemental but appear to satisfy the data requirement as per the EFED RA.
- <sup>50</sup> **850.4150** The studies cited are supplemental but appear to satisfy the data requirement as per the EFED RA.
- <sup>51</sup> **850.4400, 850.4500** The studies cited are acceptable or supplemental but appear to satisfy the data requirement as per the EFED RA. Additional data that were submitted, but not required, are not cited.
- <sup>52</sup> 835.2120 The study cited is acceptable and satisfies the data requirement as per the EFED RA.
- <sup>53</sup> **835.2240** The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA.
- 835.2410 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA; unacceptable data are not cited.
- 835.4100 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA; unacceptable data are not cited.
- 835.4200 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA.
- 57 835.4300 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA.
- 835.4400 The study cited is supplemental but satisfies the data requirement as per the EFED RA; unacceptable data are not cited.
- <sup>59</sup> **835.1230, 835.1240** The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA; unacceptable data are not cited.
- 60 835.1410 The studies cited are acceptable and satisfy the data requirement as per the EFED RA.
- 835.6100 The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED RA; unacceptable or upgradeable data are not cited.
- 62 835.6200 These data are not required based on the uses proposed to be registered.
- 850.6100 The studies cited, as well as MRID 49055301, appear to satisfy the data requirement as per the EFED RA.

## EXHIBIT C

### **Agricultural Handler Exposure Task Force**

### List of AHETF Compensable Data on Which RM Relies

AHETF Study No.	Study Title	EPA Submission Date	EPA MRID Number
AHE14	Validation of a Method for the Analysis of Malathion and Diazinon in Sock Matrix	08/30/05	46634106
AHE13- Reissue	Determination of Dermal and Inhalation Exposure to Workers During Closed-System Loading and ULV Application of a Liquid Pesticide Product to Cotton	02/16/06	46763702
AHE05	Determination of the Percent Active Ingredient of Emulsifiable Concentrate Formulations of Malathion for Use in an AHETF Applicator Exposure Greenhouse Study and an ARTF Worker Re-entry Exposure Greenhouse Study	08/23/07	47212801
AHE17	Determination of Dermal and Inhalation Exposure to Workers in Southern Illinois Open Pour Mixing/Loading a Dry Flowable Pesticide Product and During Application to Various Sites by a Variety of Application Methods	08/23/07	47212805
AHE18	Determination of Dermal and Inhalation Exposure to Workers in the Pacific Northwest During Open Pour Mixing/Loading a Dry Flowable Pesticide Product and During Application to Various Sites by a Variety of Application Methods	08/23/07	47212806
AHE20	Determination of Dermal and Inhalation Exposure to Workers in Southern Georgia During Open Pour Mixing/Loading a Dry Flowable Pesticide Product and During Application to Various Sites by a Variety of Application Methods	08/23/07	47212808
AHE21	Determination of Dermal and Inhalation Exposure to Workers in Northern Florida During Open Pour Mixing/Loading a Dry Flowable Pesticide Product and During Application to Various Sites by a Variety of Application Methods	08/23/07	47212809
AHE26	Validation of Methods for the Analysis of Simazine in Inner Dosimeter, Hand Wash, Face-Neck Wipe and OVS Tube Matrices	08/23/07	47212802
AHE28	Determination of the Simazine (AI) Concentration in Princep® Caliber 90® and Princep®	08/23/07	47212803
AHE29	Determination of the Chlorothalonil (AI) Concentration in Equus® DF Dry Flowable and Equus® 720 SST Flowable Formulated Products	08/23/07	47212804
AHE30	Determination of Dermal and Inhalation Exposure to Workers in Oregon During Banded Applications to Crops Using Open Cab Groundboom Equipment and During Open Pour Mixing/Loading a Liquid Pesticide Product	12/21/07	47309201
AHE31	Determination of Dermal and Inhalation Exposure to Workers in California During Broadcast Applications in Orchards Using Open Cab Groundboom Equipment and	12/21/07	47309202

AHETF Study No.	Study Title	EPA Submission Date	EPA MRID Number
	During Open Pour Mixing/Loading a Liquid Pesticide Product		
AHE32	Determination of Dermal and Inhalation Exposure to Workers in Florida and Southern Georgia During Broadcast Applications in Field Crops and Turf Using Open Cab Groundboom Equipment and During Open Pour Mixing/Loading a Liquid Pesticide Product	12/21/07	47309203
AHE40	Determination of Dermal and Inhalation Exposure to Workers in Georgia During Applications Using Open Cab Groundboom Equipment and During Open Pour Mixing/Loading a Liquid Pesticide Product	12/21/07	47309204
AHE47	Validation of LC/MS/MS Methods for the Analysis of Exposure Matrices for Chlorothalonil	12/21/07	47309206
AHE46	Validation of AHETF Method AHETF-AM-018, "Determination of Diazinon/Malathion in Cotton Inner Dosimeters Sectioned into Two Parts"	02/15/08	47348701
AHE61	Validation of Worker Exposure Methods for the Analysis of Glyphosate in Worker Exposure Matrices	08/20/10	48200402
AHE201	Validation of a Method for the Analysis of Chlorothalonil in Two-piece Inner Dosimeter Exposure Matrix	08/20/10	48200403
AHE70	Determination of Dermal and Inhalation Exposure to Pilots During Aerial Applications of Liquid Pesticide Sprays Using Closed Cockpit Aircraft in the United States	12/22/11	48706701
AHE67	Validation of Inner Dosimeter, Face/Neck Wipe, Hand Wash and OVS Tube Methods for the Analysis of 2,4-D and 2,4-DB in Exposure Matrices	12/22/11	48706703
AHE209	Determination of the Freezer Storage Stability of Glyphosate in/on Worker Exposure Matrices	12/22/11	48706704
AHE68	Determination of the Freezer Storage Stability of 2,4-D and 2,4-DB in/on Worker Exposure Matrices	01/05/12	48713901
AHE211	Validation of Worker Exposure Analytical Methods for the Analysis of Imazapyr in Worker Exposure Matrices	09/05/14	49462402
AHE215	Validation of a Worker Exposure Sock Matrix Method for the Analysis of 2,4-D and 2,4-DB	09/05/14	49462403
AHE217	Determination of the Freezer Storage Stability of Imazapyr in/on Worker Exposure Matrices	09/05/14	49462405
AHE400	Determination of Dermal and Inhalation Exposure to Workers during Backpack and Handgun Application of Liquid Sprays in Utilities Rights-of-Way	09/22/14	49472001
AHE500	Determination of Dermal and Inhalation Exposure to Workers during Closed System Loading of Liquids in Returnable and Non-Returnable Containers	04/25/19	50846201

AHETF Study No.	Study Title	EPA Submission Date	EPA MRID Number
Purchased Study: 501-M-1 501-A-1	Evaluation of Worker Exposures to Tribufos During Aerial and Ground Applications of DEF 6 to Cotton	01/25/93	42685901
Monograph I	Reports		
AHE1012	Agricultural Handler Exposure Scenario Monograph: Backpack Application of Liquid Sprays in Utilities Rights-of-Way	09/30/14	49478601
AHE1013	Agricultural Handler Exposure Scenario Monograph: Handgun Application of Liquid Sprays in Utilities Rights-of-Way	09/30/14	49478602
AHE1003-1 Resub.	<b>Resubmission</b> - Agricultural Handler Exposure Scenario Monograph: Open Pour Mixing and Loading of Liquid Formulations – dated March 31, 2015	04/06/15	49609202
AHE1007-1 Resub.	<b>Resubmission</b> - Agricultural Handler Exposure Scenario Monograph: Closed Cockpit Aerial Application of Liquid Sprays	11/05/15	49761201
AHE1009-1 Resub.	Resubmission - Agricultural Handler Exposure Scenario Monograph: Closed Cab Ground Liquid Spray Applications	11/05/15	49761202
AHE1004-1 Resub.	Resubmission - Agricultural Handler Exposure Scenario Monograph: Open Cab Ground Boom Applications	02/09/17	50182201
AHE1022	Agricultural Handler Exposure Scenario Monograph: Mechanical Transfer of Liquids	09/03/19	50940301

# EXHIBIT D



#### U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

84009-35

EPA Reg. Number:

Date of Issuance:

35

11/18/19

LTATE	26.43.	1333	202757	5.18. V.A	X.L. X X.,
NU II	11. 11.	111	PES	111	11 ) 11 :

X Registration
Reregistration
(under FIFRA, as amended)

Unconditional

Term of Issuance:

Name of Pesticide Product:

RM Glufosinate

Name and Address of Registrant (include ZIP Code):

Ragan and Massey, Inc c/o Pyxis Regulatory Consulting, Inc 4110 136<sup>th</sup> St. Ct. NW Gog Harbor, WA 98332

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Erik Kraft, Product Manager 24

Fungicide Herbicide Branch, Registration Division (7505P)

Date:

11/18/19

EPA Form 8570-6

Page 2 of 2 EPA Reg. No. 84009-35 Decision No. 549751

- 2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 84009-35."
- 3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 03/01/2019
- Alternate CSF 1 dated 03/01/2019

If you have any questions, please contact Manjula Unnikrishnan by phone at 703-347-8520, or via email at <u>Unnikrishnan.manjula@epa.gov</u>

Enclosure

[Note to reviewer: [Text] in brackets denotes optional text].

[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

#### **{[BOOKLET FRONT PANEL LANGUAGE]}**

#### **RM GLUFOSINATE**

[Alternate Brand Names: Compare-N-Save® Weed & Grass Killer with Glufosinate; FarmWorks® Weed & Grass Killer with Glufosinate; Farm General™ Weed & Grass Killer with Glufosinate]

FOR NONSELECTIVE WEED CONTROL OF EMERGED WEEDS IN NONCROP AREAS

GLU	JFOSINATE	GROUP	10	HERBICIDE
ACTIVE INGREDIENT:				
Glufosinate ammonium	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 11.33%	
OTHER INGREDIENTS:			***************************************	
TOTAL:			100.00%	
Equivalent to 1 lb. of active ingredient per U.S. gallor	٦.			

### KEEP OUT OF REACH OF CHILDREN

### **WARNING-AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

[See] [inside] [attached] [label] [booklet] [for] [First Aid][,] [additional] [Precautionary Statements][,] [and] [Directions for Use] [including] [and] [Storage and Disposal] [instructions].

EPA Reg. No. 84009-xx EPA Est. No.

Manufactured For: Ragan & Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, LA 70454 ACCEPTED

11/18/2019

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 84009-35

**Net Contents:** 

#### **{LANGUAGE INSIDE BOOKLET}**

	FIRST AID			
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>			
If in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>			
If on skin or clothing:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>			
If inhaled:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>			
HOT LINE NUMBER				

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product call your poison control center at 1-800-222-

NOTE TO PHYSICIAN: If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves including barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils;
- Shoes plus socks;
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

**DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Glufosinate-ammonium and its degradates have those properties normally associated with pesticides that have been detected in groundwater. Use of this product in areas with coarse soils and high water tables may result in groundwater contamination.

#### PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**DO NOT** use this product until you have read the entire label. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Restriction: In the State of New York only: Not for use in Nassau and Suffolk Counties.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses; and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry-interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water, is: coveralls; chemical-resistant gloves including barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton ≥14 mils; shoes plus socks; protective eyewear.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

The application for trimming and edging, industrial, recreational and public areas, and farmsteads are not within the scope of the WPS.

#### MANDATORY SPRAY DRIFT MITIGATION

- When making applications via aerial application equipment, the spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor blade vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- When making applications via aerial application equipment, applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.
- For aerial applications, do not release spray at a height greater than 10 ft above the target canopy, unless a greater application height is necessary for pilot safety.
- For ground applications and aerial applications, select nozzle and pressure that deliver medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1.
- Spray at the appropriate boom height based on nozzle selection and nozzle spacing, but do not
  exceed a boom height of 24 inches above target pest or target canopy. Set boom to lowest
  effective height over the target pest or target canopy based on equipment manufacturer's
  directions. Automated boom height controllers are recommended with large booms to better
  maintain optimum nozzle to canopy height. Excessive boom height will increase the potential for
  spray drift.
- For non-crop vegetation management ground applications, apply with the nozzle height no more than 4 feet above the ground or target vegetation, unless necessitated by the application equipment. Examples would include roadside, railroad, utility rights of way, forestry and other industrial vegetation management applications where safety or natural barriers obstruct application.

#### SPRAY DRIFT ADVISORIES

#### **POLLINATOR ADVISORY**

This product contains an herbicide. Follow all label directions and precautions to minimize potential off-target exposure in order to prevent effects to non-target plants adjacent to the treated site which may serve as habitat or forage for pollinators.

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

#### IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Temperature Inversions sections of this label.

#### Controlling Droplet Size - Ground Boom

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

#### **Controlling Droplet Size – Aircraft**

- Number of Nozzles Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will
  produce larger droplets than other orientations. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE

4

#### APPLICATOR.

- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- · Boom Length Longer booms increase drift potential. Therefore, a shorter boom length is recommended.
- Application Height Application more than 10 ft. above the canopy increases the potential for spray drift.

#### **BOOM HEIGHT**

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **DRIFT REDUCTION TECHNOLOGY (DRT)**

The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacture, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage as they become available: https://www.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-drift-reduction-technologies

#### WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

Note: Local terrain can influence wind patterns. Every applicator needs to be familiar be familiar with local wind patterns and how they affect spray drift.

#### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

#### **RESISTANCE MANAGEMENT**

For resistance management, RM Glufosinate is a Group 10 herbicide. Any weed population may contain or develop plants naturally resistant to RM Glufosinate and other Group 10 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same use site. Follow appropriate resistance-management strategies.

To delay herbicide resistance take one or more of the following steps:

- Avoid the consecutive use of RM Glufosinate or other target site of action Group 10 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective and to monitor weed populations for early signs of resistance development.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Report any incidence of non-performance of this product against a particular weed species to your Ragan & Massey, Inc. retailer, representative or call 800-264-5281. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

#### PRODUCT INFORMATION

RM Glufosinate is a nonselective water-soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds. RM Glufosinate will also control certain woody species. Plants that have not yet emerged at the time of application will not be controlled. THOROUGH SPRAY COVERAGE IS IMPORTANT. Visual effects and control from application of RM Glufosinate occur within 2 to 4 days after application under good growing conditions.

This product is nonselective and will injure or kill all green vegetation contacted by the spray. Avoid all contact with foliage or green tissue of desirable vegetation. Avoid direct spray contact with green, thin, or uncalloused bark of desirable vegetation or plant injury may result. If desirable vegetation is contacted, rinse the sprayed portion with water immediately.

RM Glufosinate works best when weeds are actively growing. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application at the highest rate specified. Refer to the How to Apply section of this label.

#### **NONCROP USES**

When applied as directed in this label, RM Glufosinate controls annual and perennial weeds. Refer to the *How to Apply* section of this labeling for specified rates and a list of weeds controlled. Applications may be made on a broadcast, banded or spot treatment basis depending on the situation. Avoid direct spray or drift to desirable vegetation. Regrowth may occur due to the weed stage of growth at application, low use rate, or environmental conditions. Repeat treatments may be necessary to control plants generating from underground parts or seed.

#### WHEN TO APPLY

RM Glufosinate is a foliar-active material. Best results are obtained when weeds are actively growing. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application of the highest rate specified. Refer to the *How to Apply* section of this label.

Apply RM Glufosinate at the rate specified in the *How to Apply* section of this label. Repeat applications of RM Glufosinate or tank mixes of RM Glufosinate plus one or more appropriate residual herbicide(s) listed on this label will be needed to control weeds emerging from underground parts or seeds.

#### HOW TO MIX

RM Glufosinate must be mixed with water to make a finished spray solution as follows:

- 1. Fill the spray tank with the required amount of water.
- 2. Add the proper amount of this product, then mix thoroughly.

#### HOW TO APPLY

#### **Spot or Directed Applications**

Use this product as a spot or directed spray application using 2 to 4 fluid ounces of product (0.02 to 0.03 lb. a.i.) per gallon of water. Mix 2 to 4 fluid ounces of product (0.02 to 0.03 lb. a.i.) per gallon of water depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis. Ensure uniform and complete coverage. Use a coarse spray. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

#### **Broadcast or Boom Applications**

Apply 64 to 192 fluid ounces (2 to 6 quarts) of product (0.5 to 1.5 lbs. a.i.) per acre depending upon the weed and stage of growth as shown in the following sections. Use a minimum of 40 gallons of water per acre with a minimum of 30-psi spray pressure.

#### **Aerial Applications**

Apply as a foliar treatment using a minimum of 5 gallons of water per acre to ensure thorough coverage.

#### Tank Mixes for Noncrop Uses

RM Glufosinate is compatible in tank mixes with many other herbicides including non-selective herbicides including glyphosate. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Tank mix applications of RM Glufosinate plus products containing the following active ingredients can be used for broad-spectrum postemergence and preemergence weed control.

Imazapyr Oryzalin

Prodiamine Dicamba DGA Salt

Isoxaben Oxadiazon

Pendimethalin

A compatibility test must be conducted with any potential tank mix partner with RM Glufosinate, except with any one of those listed above. Using a clear glass quart jar, conduct the test as described below:

- 1. Fill the jar three-quarters full with water.
- 2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
- 3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
- 4. If the compatibility test shows signs of incompatibility, **DO NOT** tank mix the product tested with RM Glufosinate.

#### Weeds Controlled by RM Glufosinate For spot application:

Apply 2 fluid ounces of product (0.02 lb. a.i.) per gallon of water when the weed height or diameter is less than 6 inches.

Apply 3 fluid ounces of product (0.023 lb. a.i.) per gallon of water when the weed height or diameter is 6 inches or greater.

#### For broadcast application:

Apply 96 fluid ounces (3 quarts) of product (0.75 lb. a.i.) per acre when the weed height or diameter is less than 6 inches.

Apply 128 fluid ounces (4 quarts) of product (1.0 lb. a.i.) per acre when the weed height or diameter is 6 inches or greater.

**Broadleaf Weeds** 

chickweed clover

common cocklebur filaree iimsonweed

jimsonweed kochia London rocket

malva (little mallow)

marestail

purslane shenherdspurse

shepherdspurse smartweed **Grasses and Sedges** 

barnyardgrass cupgrass fall panicum giant foxtail goosegrass green foxtail

Johnsongrass (rhizome)

lovegrass shattercane

smallflower Alexandergrass (signal grass)

stinkgrass windgrass yellow foxtail

#### For spot application:

Apply 3 fluid ounces of product (0.023 lb. a.i.) per gallon of water when the weed height or diameter is less than 6 inches.

Apply 4 fluid ounces of product (0.03 lb. a.i.) per gallon of water when the weed height or diameter is 6 inches or greater.

#### For broadcast application:

Apply 128 fluid ounces (4 quarts) of product (1.0 lb. a.i.) per acre when the weed height or diameter is less than 8 inches tall.

Apply 192 fluid ounces (6 quarts) of product (1.5 lbs. a.i.) per acre when the weed height or diameter is 8 inches or greater.

**Broadleaf Weeds** 

annual sowthistle prickly lettuce bindweed ragweed buffalobur Russian thistle burdock tansy mustard

Canada thistle curly dock dandelion

dogbane (hemp) field gromwell

fleabane goldenrod horsetail

lambsquarters leafy spurge mugwort musk thistle

nettle nightshade pennycress pigweed, red root

romwell ne nrod wild buckwheat wild mustard wild onion wild rose wild turnip woodsorrel yellow rocket

Virginia copperleaf

white heath aster

velvetleaf

vervain

Grasses and Sedges annual bluegrass

bahiagrass barley

Bermudagrass carpetgrass crabgrass dallisgrass

downy bromegrass

fescue guineagrass

Kentucky bluegrass

nutsedge paragrass quackgrass ryegrass sandbur

smooth bromegrass torpedograss vaseygrass wheat wild oat

### plantain Use Notes

1. Use higher rates within the specified rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions including drought or when average temperatures are below 50°F.

The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.

#### **Use on Woody Species**

When applied as directed, RM Glufosinate will provide control, partial control, or suppression of certain perennial woody weed species. Apply 64 to 192 fluid ounces (2 to 6 quarts) of product (0.5 lb. a.i. to 1.5 lb. a.i.) per acre. Use the higher listed rates per acre of this product when conditions are not optimum for spray penetration, including when vegetation growth is heavy or dense. Lower listed rates may be used when the target species is a conifer and when vegetation growth conditions allow for uniform spray coverage.

blackberry Rubus spp.

deer brush Ceanothus integerrimus
Douglas fir Pseudotsuga menziesii

gallberry Ilex spp.
hazel Corylus spp.
honeysuckle Lonicera spp.
huckleberry Gaylussacia spp.
maple Acer spp.
multiflora rose Rosa multiflora

multiflora rose Rosa multiflor oak Quercus spp. pine Pinus spp.

poison ivy Toxicodendron radicans poison oak Toxicodendron toxicarium

roundleaf greenbriar Smilax rotundifolia salmonberry Rubus spectabilis sweet gum Liquidambar styraciflua

sumac Rhus spp.

thimbleberry Rubus parviflorus
trumpetcreeper Campsis radicans
vine maple Acer circinatum
Western red cedar Thuja plicata

#### WHERE TO APPLY

#### **Trimming and Edging**

RM Glufosinate may be used for trimming and edging landscape areas including: around individual trees and shrubs, landscape beds, foundations, fences, driveways, paths, and parking areas; also on golf courses along cart paths, around sign and light posts, and around sand traps. For control of weeds emerging from seed, use RM Glufosinate in a tank mix with preemergence herbicides. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

#### Recreational and Public Areas

When applied as a spot or directed spray application, this product controls annual and perennial weeds listed on this label in areas including: airports, around commercial or industrial structures or outbuildings, bare ground, campgrounds, construction sites, storage and lumber yards, educational facilities, fence lines, firebreaks, gravel yards, ditch banks, dry ditches and canals, railroad rights-of-way, schools, parking lots, highways and roadsides (including aprons, medians, guardrails and rights of way), tank farms, trails, access roads, pumping stations, parks, sports areas, natural areas, wildlife habitat areas, and vacant lots. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

#### **Dormant Bermudagrass**

RM Glufosinate may be used to control winter annual weeds in well-established ornamental dormant hybrid or common Bermudagrass. Apply only when the turf is fully dormant and prior to spring green-up or severe turfgrass injury or delayed green-up may occur. For best results, apply RM Glufosinate at a rate of 96 to 192 fluid ounces (3 to 6 quarts) of product (0.75 lb. a.i. to 1.5 lbs. a.i.) per acre after most weeds have germinated and are in an early growth stage. Refer to the Weeds Controlled by RM Glufosinate section of this label for selecting rates. Applications of RM Glufosinate may also be used to suppress or control undesirable biennial or perennial weeds. Avoid high volume and spot applications where spray volume exceeds 80 gallons per acre or injury or delayed green-up may occur.

#### **Ornamentals and Christmas Trees**

When applied as directed by this label, this product may be used for the control of undesirable vegetation in site preparation prior to planting, around and within shade and greenhouses, and as a directed spray around containers and field-grown established ornamentals and Christmas trees.

**Directed spray application:** Apply RM Glufosinate as a directed spray to control in-row weeds in field-grown woody plants. Refer to the How to Apply section of this labeling for appropriate application rate to control specific weeds. This product may also be used between and around containers and in site preparation for new planting.

**Site preparation application:** This product may be used for pre-plant site preparation for the control of annual and perennial weeds listed on this label, in ornamental and Christmas tree plantings. Ornamentals and Christmas trees may be planted into the treated area after the restricted entry interval (REI) of 12 hours has elapsed. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

Greenhouse and shade house applications: RM Glufosinate may be used to control weeds in greenhouses and shadehouses. Apply RM Glufosinate as a directed spray using low-pressure type nozzles. Avoid drift and direct contact with desirable vegetation.

#### **FARMSTEADS**

When applied as directed, this product controls undesirable plant vegetation in non-crop areas around farmstead building foundations, shelter belts, along fences, and nonselective farmstead weed control. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

#### **USE PRECAUTIONS FOR NON-CROP USE**

- This product is rainfast in a minimum of one-half hour and an average of 4 hours after application depending upon weed species, environmental conditions, and herbicide application rate.
- Plants may be safely planted into areas treated with this product after spray has dried.

#### **USE RESTRICTIONS FOR NON-CROP USE**

- DO NOT apply more than 192 fluid ounces (6 quarts) of product (1.5 lbs. a.i.) per acre per application for broadcast or boom applications.
- **DO NOT** apply more than 4 fl. oz. of product (0.03 lb. a.i.) per gallon of water per application for spot or directed applications.
- **DO NOT** apply more than 192 fluid ounces (6 quarts) of product (1.5 lbs. a.i.) per acre per year when applied as a combination of any type of application.
- **DO NOT** make more than 3 applications per year for broadcast or boom applications and no more than 2 applications per year on Dormant Bermudagrass when using reduced application rates.
- For spot or directed applications, reapply as needed however **DO NOT** apply more than 192 fluid ounces (6 quarts) of product (1.5 lbs. a.i.) per acre per year.
- DO NOT make more than 48 spot or directed applications per year.
- Applications must be made at least 5 days apart in non-crop areas.
- DO NOT apply beyond runoff.
- DO NOT apply this product through any type of irrigation system.
- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
- DO NOT allow animals intended for slaughter to graze on treated vegetation.
- DO NOT apply this product as an over-the-top broadcast spray in ornamentals and shade or Christmas trees.
- For application in greenhouse and shade house applications, air circulation fans must be turned off during application.
- DO NOT use in greenhouses or shade houses containing edible crops.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store product in original container only. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

#### **CONTAINER HANDLING:**

[Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.]

[Nonrefillable Container (larger than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then

offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.]

#### CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Ragan and Massey, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Ragan and Massey, Inc. and Seller harmless for any claims relating to such factors.

Ragan and Massey, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Ragan and Massey, Inc., and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, RAGAN AND MASSEY, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Ragan and Massey, Inc. nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF RAGAN AND MASSEY, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF RAGAN AND MASSEY, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

Ragan and Massey, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Ragan and Massey, Inc.

[EPA approval date]

### **{[LANGUAGE ON LABEL AFFIXED TO** CONTAINER]}

#### **RM GLUFOSINATE**

[Alternate Brand Names: Compare-N-Save® Weed & Grass Killer with Glufosinate; FarmWorks® Weed & Grass Killer with Glufosinate; Farm General™ Weed & Grass Killer with Glufosinate]

GLUFOSINATE	GROUP	10	HERBICIDE
ACTIVE INGREDI			11 33%
TOTAL:			100.00%
Equivalent to 1 lb.	of active in	gredient per U.S. ga	llon.

### KEEP OUT OF REACH OF CHILDREN WARNING-AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

	FIRST AID				
If swallowed:	Call a poison control center or doctor immediately for treatment advice.				
	<ul> <li>Have person sip a glass of water if able to swallow.</li> </ul>				
	<ul> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> </ul>				
	<ul> <li>Do not give anything by mouth to an unconscious person.</li> </ul>				
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.				
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.				
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>				
If on skin or clothing:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water fo 15-20 minutes.</li> </ul>				
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>				
If inhaled:	Move person to fresh air.				
	<ul> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> </ul>				
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>				
	HOT LINE NUMBER				

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product call your poison control center at 1-800-222-1222.

NOTE TO PHYSICIAN: If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes,

or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### **ENVIRONMENTAL HAZARDS**

DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Glufosinate-ammonium and its degradates have those properties normally associated with pesticides that have been detected in groundwater. Use of this product in areas with coarse soils and high water tables may result in groundwater contamination.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store product in original container only. Store in a cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

#### CONTAINER HANDLING:

[Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.]

[Nonrefillable Container (larger than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.]

[See] [inside] [attached] [label] [booklet] [for] [First Aid][,] [additional] [Precautionary Statements][,] [and] [Directions for Use] [including] [and] [Storage and Disposal] [instructions].

EPA Reg. No. 84009-xx EPA Est. No.

Manufactured For: Ragan & Massey, Inc. 101 Ponchatoula Parkway Ponchatoula, LA 70454

Net Contents:

# EXHIBIT E



# **US Environmental Protection Agency Office of Pesticide Programs**

Occupational Pesticide Handler Unit Exposure Surrogate Reference Table

**June 2018** 

·		ms / Health Effects Division posure Surrogate Reference Tal	ole		
Exposure Scenario (Activity, Equipment, Formulation, Site, etc.) <sup>1</sup>	Exposure Route	Personal Protective Equipment (PPE) Level <sup>2</sup>	Data Source <sup>3,4,5</sup>	Statistic	Unit Exposure (µg/lb ai)
Mixing / Loading Dry Flowable	Dermal	Single layer, no gloves (A)	AHETF (MEA)	Mean	227
		Single layer, gloves	AHETF (MEA)	Mean	51.6
		Double layer, gloves (B)	AHETF (MEA)	Mean	41.2
		Engineering control (water-soluble packaging)	AHETF (MEA)	Mean	12.5
	Inhalation	No Respirator	AHETF	Mean	8.96
		PF10 (C)	AHETF	Mean	0.896
		PF50 (D)	AHETF	Mean	0.179
		Engineering control (water-soluble packaging)	AHETF	Mean	2.6
Mixing / Loading Granules		Single layer, no gloves (A)	AHETF (MEA)	Mean	23.6
		Single layer, gloves	AHETF (MEA)	Mean	8.12
	Dermal	Double layer, gloves (B)	AHETF (MEA)	Mean	5.80
		Engineering control (closed loading system)	PHED	"Best fit"	8.6
	Inhalation	No Respirator	AHETF	Mean	0.825
		PF10 (C)	AHETF	Mean	0.083
		PF50 (D)	AHETF	Mean	0.017
		Engineering control (closed loading system)	PHED	"Best fit"	0.083
		Single layer, no gloves (A)	AHETF (MEA)	Mean	220
		Single layer, gloves	AHETF (MEA)	Mean	37.6
Mixing / Loading Liquids	Dermal	Double layer, gloves (B)	AHETF (MEA)	Mean	29.1
		Engineering control (closed loading system)	PHED	"Best fit"	8.6
		No Respirator	AHETF	Mean	0.219
		PF10 (C)	AHETF	Mean	0.022
	Inhalation	PF50 (D)	AHETF	Mean	0.0044
		Engineering control (closed loading system)	PHED	"Best fit"	0.083
Mixing / Loading Microencapsulates		Single layer, no gloves (A)	AHETF (MEA)	Mean	220
	Dermal	Single layer, gloves	AHETF (MEA)	Mean	37.6
		Double layer, gloves (B)	AHETF (MEA)	Mean	29.1
		Engineering control (closed loading system)	PHED	"Best fit"	8.6

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Exposure Scenario (Activity, Equipment, Formulation, Site, etc.) <sup>1</sup>		Exposure Route	Personal Protective Equipment (PPE) Level <sup>2</sup>	Data Source <sup>3,4,5</sup>	Statistic	Unit Exposure (µg/lb ai)
			No Respirator	AHETF	Mean	0.219
		Inhalation	PF10 (C)	AHETF	Mean	0.022
			PF50 (D)	AHETF	Mean	0.0044
			Engineering control (closed loading system)	PHED	"Best fit"	0.083
Mixing / Loading Wettable Powders		Dermal	Single layer, no gloves (A)	AHETF	Mean	77.7
			Single layer, gloves	AHETF	Mean	57.5
			Double layer, gloves (B)	AHETF	Mean	32.8
			Engineering control (water-soluble packaging)	AHETF (MEA)	Mean	12.5
			No Respirator	AHETF	Mean	2.75
			PF10 (C)	AHETF	Mean	0.275
			PF50 (D)	AHETF	Mean	0.055
			Engineering control (water-soluble packaging)	AHETF	Mean	2.6
Applicator, Aerial, Fixed-Wing	Liquids	Dermal	Engineering control (Enclosed cockpit)	AHETF (MEA)	Mean	2.08
		Inhalation	Engineering control (Enclosed cockpit)	AHETF (MEA)	Mean	0.0049
	Granules	Dermal	Engineering control (Enclosed cockpit)	PHED	"Best fit"	1.7
		Inhalation	Engineering control (Enclosed cockpit)	PHED	"Best fit"	1.3
Applicator, Aerosol Can	All sites (except animal treatments)	Dermal	Single layer, no gloves	PHED	"Best fit"	190000
			Single layer, gloves	PHED	"Best fit"	81000
			Double layer, gloves (B)	PHED	"Best fit"	64000
		Inhalation	No Respirator	PHED	"Best fit"	1300
			PF10 (C)	PHED	"Best fit"	130
			PF50 (D)	PHED	"Best fit"	26
	Animal (pet and livestock) treatments	Dermal	Single layer, no gloves	MRID 44433302	Mean	544000
			Single layer, gloves (E)	MRID 44433302	Mean	503000
			Double layer, gloves (B, E)	MRID 44433302	Mean	273000
		Inhalation	No Respirator	MRID 44433302	Mean	3270
			PF10 (C)	MRID 44433302	Mean	327
			PF50 (D)	MRID 44433302	Mean	66
Applicator, Open Cab Airblast		Dermal	Single layer, no gloves (A)	AHETF	Mean	1770

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) Single layer, gloves **AHETF** Mean 1590 Single layer, gloves, chemical-AHETF (MEA) Mean 215 resistant hat Double layer, gloves (B) **AHETF** Mean 1480 Double layer, gloves, AHETF (MEA) 141 Mean chemical-resistant hat (B) Engineering control AHETF (MEA) 14.6 Mean (Enclosed Cab) **AHETF** Mean 4.71 No Respirator **AHETF** 0.471 PF10 (C) Mean Inhalation PF50 (D) **AHETF** Mean 0.094 Engineering control **AHETF** 0.068 Mean (Enclosed Cab) AHETF (MEA) 78.6 Single layer, no gloves (A) Mean Single layer, gloves AHETF (MEA) Mean 16.1 Dermal Double layer, gloves (B) AHETF (MEA) 12.6 Mean Engineering control **PHED** "Best fit" 5.1 (Enclosed Cab) Applicator, Open Cab Groundboom **AHETF** 0.34 No Respirator Mean 0.034 PF10 (C) **AHETF** Mean Inhalation PF50 (D) 0.0068 **AHETF** Mean Engineering control PHED "Best fit" 0.043 (Enclosed Cab) **PHED** "Best fit" 9.9 Single layer, no gloves **PHED** "Best fit" 7.2 Single layer, gloves (E) Dermal Double layer, gloves (B, E) PHED "Best fit" 4.2 Engineering control PHED "Best fit" 2.0 (Enclosed Cab) Applicator, Open Cab Solid Broadcast Spreader No Respirator **PHED** "Best fit" 1.2 PF10 (C) **PHED** "Best fit" 0.12 Inhalation PF50 (D) PHED "Best fit" 0.024 Engineering control **PHED** 0.22 "Best fit" (Enclosed Cab) PHED "Best fit" 104000 Single layer, no gloves (A) **PHED** "Best fit" 71000 Applicator, Granules by Hand Dermal Single layer, gloves PHED "Best fit" 40280 Double layer, gloves (B)

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> Statistic Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) No Respirator **PHED** "Best fit" 470 **PHED** "Best fit" PF10 (C) 47 Inhalation PF50 (D) **PHED** "Best fit" 9.4 Single layer, no gloves PHED "Best fit" 180000 Dermal Single layer, gloves (E) PHED "Best fit" 24000 Double layer, gloves (B, E) **PHED** "Best fit" 22000 Applicator, Brush/roller "Best fit" 280 No Respirator PHED PF10 (C) **PHED** "Best fit" 28 Inhalation PF50 (D) "Best fit" 5.6 PHED **PHED** Single layer, no gloves 42600 Mean MRID 43600102 **PHED** Dermal Single layer, gloves (E) 11700 Mean MRID 43600102 **PHED** Double layer, gloves (B, E) Mean 10600 MRID 43600102 Applicator, Airless Sprayer **PHED** No Respirator Mean 560 MRID 43600102 PHED Inhalation PF10 (C) Mean 56 MRID 43600102 PHED PF10 (C) Mean 11.2 MRID 43600102 Single layer, no gloves PHED "Best fit" 11 Single layer, gloves **PHED** "Best fit" 12 Dermal Double layer, gloves (B) PHED "Best fit" 10.6 Liquids **PHED** "Best fit" 0.35 No Respirator PF10 (C) "Best fit" 0.035 Inhalation PHED PF50 (D) **PHED** "Best fit" 0.007 Flagger "Best fit" 2.75 Single layer, no gloves (F) PHED 2.73 Dermal Single layer, gloves (E, F) **PHED** "Best fit" **PHED** "Best fit" 1.59 Double layer, gloves (E, G) Granules **PHED** "Best fit" 0.15 No Respirator PF10 (C) **PHED** "Best fit" 0.015 Inhalation PF50 (D) **PHED** "Best fit" 0.003 **PHED** Single layer, no gloves "Best fit" 10000 "Best fit" Loader / Applicator, Belly Grinder Single layer, gloves **PHED** 9300 Dermal Double layer, gloves (B) PHED 5700 "Best fit"

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(Activity	Exposure Scer y, Equipment, Form		Exposure Route	Personal Protective Equipment (PPE) Level <sup>2</sup>	Data Source <sup>3,4,5</sup>	Statistic	Unit Exposure (µg/lb ai)
				No Respirator	PHED	"Best fit"	62
			Inhalation	PF10 (C)	PHED	"Best fit"	6.2
				PF50 (D)	PHED	"Best fit"	1.24
				Single layer, no gloves	ORETF	Mean	440
			Dermal	Single layer, gloves	ORETF	Mean	240
l a a dead	A	" Data - Commendan		Double layer, gloves (B)	ORETF	Mean	130
Loader / /	Applicator, "Push-ty	pe" Rotary Spreader		No Respirator	ORETF	Mean	10
			Inhalation	PF10 (C)	ORETF	Mean	1.0
				PF50 (D)	ORETF	Mean	0.2
Greenhouses, Wildlife management, Nurseries,		Greenhouses, Wildlife management, Nurseries,		Single layer, no gloves	PHED	"Best fit"	100000
	In	Landscaping, Industrial/Commercial areas,	Dermal	Single layer, gloves	PHED	"Best fit"	430
Poultry/livestock houses, Animal treatments, Outdoor residential areas, Interior landscaping, Aquatic areas,			Double layer, gloves (B)	PHED	"Best fit"	365	
		Inhalation	No Respirator	PHED	"Best fit"	30	
Mixer / Loader / Applicator, Manually- pressurized Handwand Exterior building components, Mushroom	PF10 (C)		PHED	"Best fit"	3.0		
pressurized nanawana		houses, Christmas Tree Farms		PF50 (D)	PHED	"Best fit"	0.6
	Food handling establishments,	Dermal	Single layer, no gloves (A)	PHED	"Best fit"	29000	
			Single layer, gloves	PHED	"Best fit"	8600	
		Warehouses, Structural		Double layer, gloves (B)	PHED	"Best fit"	6200
		treatments, Residential	Inhalation	No Respirator	PHED	"Best fit"	1100
		Living Spaces, Childcare		PF10 (C)	PHED	"Best fit"	110
		centers/schools		PF50 (D)	PHED	"Best fit"	22
				Single layer, no gloves (A)	PHED	"Best fit"	2510
		Poultry/Livestock houses, Industrial/Commercial areas, Livestock treatments, Structural treatments	Dermal	Single layer, gloves	PHED	"Best fit"	2500
Mixer / Loader / Applicator,	General Broadcast/Foliar Applications			Double layer, gloves (B)	PHED	"Best fit"	1600
			Inhalation	No Respirator	PHED	"Best fit"	30
				PF10 (C)	PHED	"Best fit"	3.0
Backpack Sprayer				PF50 (D)	PHED	"Best fit"	0.6
			Dermal	Single layer, no gloves (A)	AHETF	Mean	13200
		Greenhouses		Single layer, gloves	AHETF	Mean	11200
				Double layer, gloves (B)	AHETF	Mean	6230

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) **AHETF** Mean 140 No Respirator PF10 (C) **AHETF** 14 Inhalation Mean PF50 (D) **AHETF** 2.8 Mean Single layer, no gloves (A) AHETF (MEA, fRA) 58400 Mean Nurseries, Christmas Tree AHETF (MEA, fRA) Dermal Single layer, gloves Mean 30500 Farms, Wildlife Double layer, gloves (B) AHETF (MEA, fRA) Mean 16900 management, Rights-of-way, No Respirator **AHETF** Mean 69.1 Forestry, Landscaping PF10 (C) **AHETF** 6.91 Inhalation Mean (turf/plants/bushes/trees), PF50 (D) **AHETF** Mean 1.38 MRID 44339801 8260 Single layer, no gloves (A) Mean Dermal Single layer, gloves MRID 44339801 Mean 8260 Foundation/perimeter Double layer, gloves (B) MRID 44339801 Mean 4120 treatments, Aquatic areas4 2.58 No Respirator MRID 44339801 Mean Inhalation PF10 (C) MRID 44339801 Mean 0.258 PF50 (D) MRID 44339801 0.052 Mean Single layer, no gloves (A) MRID 44339801 Mean 8260 Single layer, gloves 8260 Dermal MRID 44339801 Mean Ground/Soil-directed (e.g., drench treatments, Double layer, gloves (B) MRID 44339801 Mean 4120 herbicides in orchards, vineyards, and tree 2.58 No Respirator MRID 44339801 Mean farms)5 Inhalation PF10 (C) MRID 44339801 Mean 0.258 PF50 (D) MRID 44339801 Mean 0.052 Single layer, no gloves (A) MRID 45167201 Mean 155 Single layer, gloves Dermal MRID 45167201 144 Mean Double layer, gloves (B) MRID 45167201 Mean 72.6 MRID 45250702 23.8 No Respirator Mean MRID 45167201 Granule formulation applications MRID 45250702 Inhalation PF10 (C) Mean 2.38 MRID 45167201 MRID 45250702 PF50 (D) 0.476 Mean MRID 45167201 Single layer, no gloves (A) AHETF (MEA) 6050 Orchards, Mean Mixer / Loader / 2050 Vineyards, Dermal Single layer, gloves AHETF (MEA) Mean Applicator, Specialty General Broadcast/Foliar Double layer, gloves (B) AHETF (MEA) Mean 1360 Mechanically-Agricultural **Applications** No Respirator **AHETF** Mean 8.68 pressurized Crops, Rights-of-Inhalation PF10 (C) **AHETF** Mean 0.868 Handgun Sprayer way, Nurseries, PF50 (D) **AHETF** 0.174 Mean

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) Single layer, no gloves (A) AHETF (MEA) Mean 6050 Landscaping ΑII (non-turf), Single layer, gloves AHETF (MEA) 2050 Dermal Mean formulations. Industrial/Comm Double layer, gloves (B) AHETF (MEA) Mean 1360 except ercial areas. No Respirator **AHETF** 8.68 Mean wettable Aquatic areas, Inhalation PF10 (C) **AHETF** Mean 0.868 powders Drench/Soil-Wildlife PF50 (D) **AHETF** Mean 0.174 directed management, Single layer, no gloves (A) MRID 45773201 Mean 4310 **Applications** Christmas Tree Single layer, gloves MRID 45773201 4310 Dermal Mean farms Wettable Double layer, gloves (B) MRID 45773201 Mean 2160 **Powders** MRID 45773201 Mean 3931 No Respirator Inhalation PF10 (C) MRID 45773201 Mean 393 PF50 (D) MRID 45773201 78.6 Mean **PHED** "Best fit" 1800 Single layer, no gloves Single layer, gloves **PHED** "Best fit" 640 Dermal Double layer, gloves (B) **PHED** 365 "Best fit" Structural treatments, Warehouses, Poultry/livestock houses, Livestock treatments No Respirator **PHED** "Best fit" 79 7.9 **PHED** "Best fit" Inhalation PF10 (C) PF50 (D) PHED "Best fit" 1.58 PHED "Best fit" 3500 Single layer, no gloves (A) 2500 Dermal Single layer, gloves PHED "Best fit" 1600 General Broadcast/Foliar Double layer, gloves (B) **PHED** "Best fit" **Applications** No Respirator PHED "Best fit" 120 12 Inhalation PF10 (C) PHED "Best fit" PF50 (D) PHED "Best fit" 2.4 3500 Single layer, no gloves (A) PHED "Best fit" ΑII Dermal Single layer, gloves **PHED** "Best fit" 2500 Greenhouses. formulations, "Best fit" 1600 Double layer, gloves (B) PHED Mushroom except 120 No Respirator **PHED** "Best fit" wettable houses Inhalation PF10 (C) **PHED** "Best fit" 12 powders Drench/Soil-2.4 **PHED** "Best fit" PF50 (D) directed MRID 45773201 4310 Single layer, no gloves (A) Mean **Applications** 4310 Dermal Single layer, gloves MRID 45773201 Mean Double layer, gloves (B) MRID 45773201 Mean 2160 Wettable **Powders** No Respirator MRID 45773201 Mean 3931 Inhalation PF10 (C) MRID 45773201 Mean 393 PF50 (D) MRID 45773201 78.6 Mean

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) Single layer, no gloves (A) **ORETF** Mean 1140 **ORETF** Single layer, gloves 880 Dermal Mean **ORETF** 450 Double layer, gloves (B) Mean Liquids 1.9 No Respirator **ORETF** Mean 0.19 Inhalation PF10 (C) ORETF Mean PF50 (D) **ORETF** Mean 0.038 Single layer, no gloves (A) **ORETF** Mean 1960 Single layer, gloves **ORETF** 1400 Dermal Mean Water-740 Double layer, gloves (B) **ORETF** Mean dispersible **ORETF** 42 No Respirator Mean Granules Inhalation PF10 (C) **ORETF** Mean 4.2 PF50 (D) **ORETF** 0.84 Mean Turf (lawns, fields, golf courses) **ORETF** 1650 Single layer, no gloves (A) Mean Single layer, gloves **ORETF** Mean 1210 Dermal Double layer, gloves (B) **ORETF** 630 Wettable Mean **Powders** No Respirator **ORETF** Mean 250 25 Inhalation **ORETF** PF10 (C) Mean 5 PF50 (D) **ORETF** Mean **ORETF** Mean 1350 Single layer, no gloves (A) 855 Single layer, gloves **ORETF** Mean Dermal Water-458 Double layer, gloves (B) **ORETF** Mean soluble No Respirator **ORETF** Mean 18 **Packets** 1.8 Inhalation PF10 (C) **ORETF** Mean PF50 (D) ORETF Mean 0.36 No data available Dermal No Respirator MRID 49602401 Mean 8916 Mixer / Loader / Applicator, Handheld/Portable Fogger/Mister MRID 49602401 Mean 892 Inhalation PF10 (C) 178 PF50 (D) MRID 49602401 Mean Dermal No data available Mixer / Loader / Applicator, Stationary/Automatic Fogger/Mister No Respirator MRID 49602401 Mean 8916 (without re-entry restriction) PF10 (C) MRID 49602401 Mean 892 Inhalation 178 PF50 (D) MRID 49602401 Mean Applicator, Stationary/Automatic Fogger/Mister (with re-entry Applicator not present, exposure assumed negligible. restriction) Single layer, no gloves (A) **AHETF** Mean 1770 Applicator, Truck-mounted Fogger/Mister Dermal **AHETF** 1590 Single layer, gloves Mean

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-	re Scenario , Formulation, Site, etc.)¹	Exposure Route	Personal Protective Equipment (PPE) Level <sup>2</sup>	Data Source <sup>3,4,5</sup>	Statistic	Unit Exposure (µg/lb ai)
			Single layer, gloves, chemical- resistant hat	AHETF (MEA)	Mean	215
			Double layer, gloves (B)	AHETF	Mean	1480
			Double layer, gloves, chemical-resistant hat (B)	AHETF (MEA)	Mean	141
			Engineering control (Enclosed Cab)	AHETF (MEA)	Mean	14.6
			No Respirator	AHETF	Mean	4.71
			PF10 (C)	AHETF	Mean	0.471
		Inhalation	PF50 (D)	AHETF	Mean	0.094
			Engineering control (Enclosed Cab)	AHETF	Mean	0.068
			Single layer, no gloves (A)	PHED	"Best fit"	1300
	Applicator, Termiticide Injection		Single layer, gloves	PHED	"Best fit"	360
Applicator To			Double layer, gloves (B)	PHED	"Best fit"	250
Applicator, re			No Respirator	PHED	"Best fit"	2.2
		Inhalation	PF10 (C)	PHED	"Best fit"	0.22
			PF50 (D)	PHED	"Best fit"	0.044
			Single layer, no gloves (A)	AHETF (MEA)	Mean	220
		Dermal	Single layer, gloves	AHETF (MEA)	Mean	37.6
	Liquida		Double layer, gloves (B)	AHETF (MEA)	Mean	29.1
	Liquids		No Respirator	AHETF	Mean	0.219
		Inhalation	PF10 (C)	AHETF	Mean	0.022
			PF50 (D)	AHETF	Mean	0.0044
			Single layer, no gloves (A)	AHETF (MEA)	Mean	23.6
		Dermal	Single layer, gloves	AHETF (MEA)	Mean	8.12
Pour in/on	Granules		Double layer, gloves (B)	AHETF (MEA)	Mean	5.80
roui myon	Granules		No Respirator	AHETF	Mean	0.825
		Inhalation	PF10 (C)	AHETF	Mean	0.083
			PF50 (D)	AHETF	Mean	0.017
	Dusts		Single layer, no gloves (A)	AHETF (MEA)	Mean	227
			Single layer, gloves	AHETF (MEA)	Mean	51.6
		Dermal	Double layer, gloves (B)	AHETF (MEA)	Mean	41.2
			Engineering control (water-soluble packaging)	AHETF (MEA)	Mean	12.5
		Inhalation	No Respirator	AHETF	Mean	8.96

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) PF10 (C) **AHETF** Mean 0.896 PF50 (D) **AHETF** 0.179 Mean Engineering control **AHETF** 2.6 Mean (water-soluble packaging) 220 AHETF (MEA) Single layer, no gloves (A) Mean 37.6 Dermal Single layer, gloves AHETF (MEA) Mean AHETF (MEA) Double layer, gloves (B) 29.1 Mean Back rubber 0.219 No Respirator **AHETF** Mean Inhalation PF10 (C) **AHETF** Mean 0.022 PF50 (D) 0.0044 **AHETF** Mean Single layer, no gloves (A) MRID 44433303 Mean 112000 Dermal Single layer, gloves MRID 44433303 Mean 67800 42000 Double layer, gloves (B) MRID 44433303 Mean Collar No Respirator Applicator inhalation exposure expected to be Inhalation PF10 (C) negligible. PF50 (D) MRID 45528801 54300 Single layer, no gloves (F) Mean Dermal Single layer, gloves (F, E) MRID 45528801 Mean 53400 Double layer, gloves (G, E) MRID 45528801 Mean 25600 Dip Animal (pet and livestock) No Respirator MRID 45528801 Mean 26.6 **Treatments** MRID 45528801 2.66 Inhalation PF10 (C) Mean PF50 (D) Mean 0.532 MRID 45528801 227 Single layer, no gloves (A) AHETF (MEA) Mean Dermal Single layer, gloves AHETF (MEA) Mean 51.6 Double layer, gloves (B) AHETF (MEA) 41.2 Mean Dust bag No Respirator **AHETF** 8.96 Mean Inhalation PF10 (C) **AHETF** Mean 0.896 PF50 (D) **AHETF** 0.179 Mean Ear tag Applicator exposure expected to be negligible; chemical-resistant gloves recommended. Single layer, no gloves (A) AHETF (MEA) Mean 220 Dermal Single layer, gloves AHETF (MEA) Mean 37.6 Double layer, gloves (B) AHETF (MEA) Mean 29.1 Liquids Feed-through No Respirator **AHETF** Mean 0.219 PF10 (C) 0.022 Inhalation **AHETF** Mean PF50 (D) **AHETF** Mean 0.0044 227 Dust Single layer, no gloves (A) AHETF (MEA) Mean Dermal

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#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) Single layer, gloves AHETF (MEA) 51.6 Mean Double layer, gloves (B) AHETF (MEA) 41.2 Mean 8.96 No Respirator **AHETF** Mean PF10 (C) **AHETF** 0.896 Inhalation Mean PF50 (D) **AHETF** Mean 0.179 Single layer, no gloves (A) AHETF (MEA) 23.6 Mean Dermal Single layer, gloves AHETF (MEA) Mean 8.12 5.80 Double layer, gloves (B) AHETF (MEA) Mean Granules 0.825 No Respirator **AHETF** Mean 0.083 Inhalation PF10 (C) **AHETF** Mean PF50 (D) **AHETF** Mean 0.017 MRID 44658401 2098000 Single layer, no gloves (F) Mean MRID 44658401 2052000 Dermal Single layer, gloves (E, F) Mean Double layer, gloves (E, B) MRID 44658401 Mean 1029000 Shampoo MRID 44658401 292 No Respirator Mean Inhalation PF10 (C) MRID 44658401 Mean 29.2 5.84 PF50 (D) MRID 44658401 Mean 844000 Single layer, no gloves (F) MRID 45528801 Mean Single layer, gloves (F, E) MRID 45528801 767000 Dermal Mean Double layer, gloves (G, E) MRID 45528801 Mean 386000 Sponge 208 No Respirator MRID 45528801 Mean Inhalation PF10 (C) MRID 45528801 20.8 Mean PF50 (D) MRID 45528801 4.16 Mean Single layer, no gloves (A) MRID 44433303 Mean 112000 Single layer, gloves 67800 MRID 44433303 Dermal Mean Double layer, gloves (B) MRID 44433303 Mean 42000 Spot-on No Respirator Applicator inhalation exposure expected to be Inhalation PF10 (C) negligible. PF50 (D) Single layer, no gloves **ORETF** Mean 166000 Single layer, gloves (E) **ORETF** 24700 Dermal Mean Double layer, gloves (E, B) **ORETF** Mean 20600 Loader / applicator, Bulb duster No Respirator **ORETF** Mean 1690 Inhalation PF10 (C) **ORETF** Mean 169 PF50 (D) **ORETF** 33.8 Mean **AEATFII** 2380000 Applicator, Wipe/Towelette Dermal Single layer, no gloves Mean

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	re Scenario , Formulation, Site, etc.)¹	Exposure Route	Personal Protective Equipment (PPE) Level <sup>2</sup>	Data Source <sup>3,4,5</sup>	Statistic	Unit Exposure (µg/lb ai)
			Single layer, gloves (E)	AEATFII	Mean	238000
			Double layer, gloves (E, B)	AEATFII	Mean	238000
			No Respirator	AEATFII	Mean	480
		Inhalation	PF10 (C)	AEATFII	Mean	48
			PF50 (D)	AEATFII	Mean	9.6
			Single layer, no gloves	MRID 45333401	Mean	112
		Dermal	Single layer, gloves (E)	MRID 45333401	Mean	11.2
	l'		Double layer, gloves (E)	MRID 45333401	Mean	11.2
Loader / a	pplicator, Cup		No Respirator	MRID 45333401	Mean	12.5
		Inhalation	PF10 (C)	MRID 45333401	Mean	1.25
			PF50 (D)	MRID 45333401	Mean	0.25
			Single layer, no gloves (A, F)	MRID 45250702	Mean	4170
		Dermal	Single layer, gloves (F)	MRID 45250702	Mean	3030
			Double layer, gloves (A, G)	MRID 45250702	Mean	1580
Loader / ap	plicator, Spoon		No Respirator	MRID 45250702	Mean	121
			PF10 (C)	MRID 45250702	Mean	12.1
			PF50 (D)	MRID 45250702	Mean	2.42
Single-use Inje	ction (gels/pastes)		Applicator exposure e	expected to be neglig	ible.	
			Single layer, no gloves	ORETF	Mean	166000
		Dermal	Single layer, gloves (E)	ORETF	Mean	24700
			Double layer, gloves (E, B)	ORETF	Mean	20600
Loader / applica	Loader / applicator, Plunger duster		No Respirator	ORETF	Mean	1690
			PF10 (C)	ORETF	Mean	169
			PF50 (D)	ORETF	Mean	33.8
Applicator, To	tal-release Fogger		Applicator exposure e	expected to be neglig	ible.	
	Tree Injection		Applicator exposure			
			Single layer, no gloves (A)	ORETF	Mean	3660
		Dermal	Single layer, gloves	ORETF	Mean	1800
	All application sites, except animals		Double layer, gloves (B)	ORETF	Mean	1110
Applicator, Trigger-spray Bottle		Inhalation	No Respirator	ORETF	Mean	
				MRID 41054701		61.2
				MRID 44739301		
			PF10 (C)	ORETF	Mean	
				MRID 41054701		6.12
				MRID 44739301		
			PF50 (D)	ORETF	Mean	1.22

#### USEPA / Office of Pesticide Programs / Health Effects Division Occupational Pesticide Handler Unit Exposure Surrogate Reference Table Unit **Exposure Scenario** Exposure **Personal Protective** Data Source<sup>3,4,5</sup> **Statistic** Exposure (Activity, Equipment, Formulation, Site, etc.)1 Route Equipment (PPE) Level<sup>2</sup> (µg/lb ai) MRID 41054701 MRID 44739301 544000 Single layer, no gloves (F) MRID 44433302 Mean Single layer, gloves (F, E) MRID 44433302 503000 Dermal Mean Double layer, gloves (G, E) MRID 44433302 Mean 273000 Animal treatments MRID 44433302 Mean 3300 No Respirator PF10 (C) Inhalation MRID 44433302 Mean 330 PF50 (D) MRID 44433302 66 Mean 112 Single layer, no gloves MRID 45333401 Mean MRID 45333401 11.2 Dermal Single layer, gloves (E) Mean Double layer, gloves (E) MRID 45333401 Mean 11.2 Granules MRID 45333401 12.5 No Respirator Mean PF10 (C) 1.25 Inhalation MRID 45333401 Mean PF50 (D) MRID 45333401 Mean 0.25 MRID 44439901 4042000 Single layer, no gloves Mean MRID 45519601 MRID 44439901 Applicator, Shaker can Single layer, gloves 110000 Dermal Mean MRID 45519601 MRID 44439901 Double layer, gloves (B) Mean 72600 MRID 45519601 Dusts MRID 44439901 17500 No Respirator Mean MRID 45519601 MRID 44439901 Inhalation PF10 (C) 1750 Mean MRID 45519601 MRID 44439901 PF50 (D) 350 Mean MRID 45519601 **PHED** "Best fit" Single layer, no gloves (A) 104000 Dermal Single layer, gloves **PHED** "Best fit" 71000 Double layer, gloves (B) **PHED** "Best fit" 40280 Re-fillable 470 Trap/bait station No Respirator PHED "Best fit" PF10 (C) **PHED** "Best fit" 47 Inhalation **PHED** "Best fit" 9.4 PF50 (D) Applicator exposure expected to be negligible. Single-use

<sup>&</sup>lt;sup>1</sup> If the description of the scenario is silent on specific equipment, sites, formulations, etc., the data are applicable to all potential applications for that scenario.

<sup>&</sup>lt;sup>2</sup> Single layer = long-sleeve shirt, long pants, shoes plus socks. Double layer = "coveralls" in addition to single layer.

USEPA / Office of Pesticide Programs / Health Effects Division					
Occupational Pesticide Han	ıdler Unit Ex	posure Surrogate Reference Tab	le		
Exposure Scenario (Activity, Equipment, Formulation, Site, etc.) <sup>1</sup>	Exposure Route	Personal Protective Equipment (PPE) Level <sup>2</sup>	Data Source <sup>3,4,5</sup>	Statistic	Unit Exposure (µg/lb ai)

Exposure monitoring data representing all levels of PPE for all scenarios are unavailable. In order to represent different PPE levels, exposure values are calculated using assumptions for the protection afforded by additional layers of clothing, chemical-resistant gloves, or respirators. Exposure assessors should be mindful of the uncertainties that this convention introduces into the overall calculations. In all cases, estimates based on direct measurements representing the PPE-level specified are the most reliable. If a scenario uses PPE calculation assumptions, they are identified in the table with one or more of the following notations:

- (A) "No glove" hand exposure back-calculated from available "gloved hand" exposure data by multiplying by 10 (i.e., chemical-resistant gloves are assumed to reduce hand exposure by 90%).
- (B) "Double layer" body exposure calculated from available "single layer" body exposure data by dividing by 2 (i.e., an additional layer of clothing is assumed to reduce body exposure by 50%).
- (C) "PF10" respirator exposure calculated from available "no respirator" exposure data by dividing by 10 (i.e., a PF10 respirator is assumed to reduce inhalation exposure by 90%).
- D) "PF50" respirator exposure calculated from available "no respirator" exposure data by dividing by 50 (i.e., a PF50 respirator is assumed to reduce inhalation exposure by 98%).
- (E) "Gloved" hand exposure calculated from available "no glove" hand exposure data by dividing by 10 (i.e., chemical-resistant gloves are assumed to reduce hand exposure by 90%).
- F) "Single layer" body exposure calculated from available "total deposition" body exposure data by dividing by 2 (i.e., an additional layer of clothing is assumed to reduce body exposure by 50%).
- (G) "Double layer" body exposure calculated from available "total deposition" body exposure data by dividing by 4 (i.e., two layers of clothing are assumed to reduce body exposure by 75%).

If a scenario does not have one of these notations, the data underlying the recommended values is a direct match for the indicated level of PPE.

- <sup>3</sup> PHED = Pesticide Handler Exposure Database; AHETF = Agricultural Handler Exposure Task Force; ORETF = Outdoor Residential Exposure Task Force; MRID = Master Record Identification (#).
- <sup>4</sup> Where applicable, the notation "MEA" is added to signify that the default values reflect an (upward) adjustment by the U.S. EPA for potential inefficiency of the hand wash and face/neck wipe exposure monitoring methods. MEA = Method Efficiency Adjustment.
- <sup>5</sup> Where applicable, the notation "fRA" is added to signify that the default value reflects an (upward) adjustment by the U.S. EPA to reflect that the underlying data did not meet benchmark accuracy objectives. fRA = fold Relative Accuracy.
- <sup>6</sup> Due to the effect that the back-calculation from "gloved hands" to represent "non-gloved hands" has on distributional variability and parametric estimates, no adjustment was made to hand measurements to represent unit exposures for "single layer, no gloves". That is, the unit exposure for "single layer, gloves" is also assigned to "single layer, no gloves".

# Attachment 1 Documentation of Revisions

Date	Documentation of Revisions
Apr2011	Original version, modeled based on "PHED Surrogate Guide"
	Reflects move from data from PHED to AHETF for following scenarios
	Open Cab Groundboom
	Open Mix/Load Liquids
	Open Mix/Load Dry Flowable
	Published EPA webpage on occupational pesticide handler exposure, including link to reference table
May2011	Replaced PHED values for "Closed Cab Airblast" with those from AHETF
Jun2011	Replaced PHED values for "Open Cab Airblast" with those from AHETF
	• Corrected unit exposure for "Mixer / Loader / Applicator, Low-pressure Handwand, Wettable Powder, Double layer, gloves" from 620
	μg/lb ai to 6200 μg/lb ai
Sep2011	Reflects overhaul of exposure scenario assignment of available surrogate data
	<ul> <li>New scenarios added (e.g., pet/animal treatments)</li> </ul>
	<ul> <li>Scenario subsets added (e.g., power handgun site subsets)</li> </ul>
	<ul> <li>Available individual proprietary studies assigned</li> </ul>
	Footnotes edited
	Orientation changed to landscape to accommodate scenario additions
Mar2012	• Corrected "Dip" and "Sponge" inhalation unit exposures to reflect use of ½ LOD without correction for field fortification per standard
	policy
	<ul> <li>Corrected "Mixing / Loading Liquids" inhalation unit exposures to 2 significant figures</li> </ul>
	• Removed PPE footnote notation "(H)" since that does not apply to any scenario
	• Corrected PPE notations for "Spoon" scenario to reflect exposure monitoring of "total deposition with chemical-resistant gloves"
	• For "Mechanically-pressurized Handgun Sprayer", added "Specialty Agricultural Crops" to a sub-set category
	Added "Documentation of Revisions" as an attachment
Mar2013	Aerial Applicator scenario: PHED replaced with data from the AHETF
	Re-assigned MRID45773201 to drench/soil-directed applications of wettable powders only
	• Footnote (G) typographical correction: "100%" corrected to "75%" (unit exposures are unchanged)
Sept2015	Additional livestock treatment scenarios incorporated (backpack and mechanically-pressurized handgun)
	Wildlife management incorporated into mechanically-pressurized handgun scenario
	Mushroom houses incorporated into mechanically-pressurized handgun scenario and manually-pressurized handwand scenario
	Granule formulations added to "animal, feed-through" scenario
	Characterized Animal treatments as "Pet" or "Livestock"
	• Incorporated new data from AHETF for backpack applicator and mechanically-pressurized handgun applicators in rights-of-ways and other
	similar use patterns.
	Added tree injection applicator scenario.
Nov2016	Incorporated new data from AHETF for mixing/loading wettable powders and mixing/loading water-soluble packets
	Added clarifying footnotes to the "Data Source"
	Added scenario for "Mixer/Loader/Applicator, Fogging Equipment (handheld, portable, stationary)"
	Added scenario for "Applicator, Truck-mounted Fogger"
	Added scenario for "Applicator, Stationary Fogger (with re-entry restriction)"
	Added scenario for "Applicator, Wipe/Towelette"

	Revised table formatting for "Applicator, Pour in/on" scenario
Jun2018	• Replaced data for Open Pour Loading Granules with new AHETF data. Scenarios effected: Loading Granules as well as Feed-through and Pour in/on
	PF5 respirators revised to PF10, bringing EPA up to date with long-standing assumptions and practice by the Occupational Safety and Health Administration (OSHA) and the National Institutes for the Occupational Safety and Health (NIOSH).
	PF50 respirators added as a potential PPE option.
	• Separated and edited the "Mixer/Loader/Applicator, Fogging Equipment (handheld, portable, stationary)" into "Mixer/Loader/Applicator, Handheld/Portable Fogger/Mister" and "Mixer/Loader/Applicator, Automatic/Stationary Fogger/Mister (without re-entry restriction)"
	Edited scenario for "Applicator, Truck-mounted Fogger" to "Applicator, Truck-mounted Fogger/Mister"
	• Edited scenario for "Applicator, Stationary Fogger (with re-entry restriction)" to "Applicator, Stationary/Automatic Fogger/Mister (with re-entry restriction)"
	• For manually pressurized handwand, clarified Structural treatments by adding a scenario for Exterior building components and moving Structural treatments to a different surrogate dataset
	Added scenarios for Microencapsulate formulations with liquid AHETF data as the surrogate dataset
	Removed inapplicable engineering control scenarios from Pour in/on scenarios
	Edited "Paintbrush/roller" to "Brush/roller"
	Corrected inhalation unit exposures for Handgun/Turf/Water-soluble Packets. Previously mistakenly showed values for liquid
1	formulations (i.e., copy/paste error). EPA calculations, however, used correct unit exposures.

## Appointment

Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

2/12/2021 6:17:03 PM Sent:

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

Subject: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

Location: Microsoft Teams Meeting

Start: 2/18/2021 8:30:00 PM 2/18/2021 9:00:00 PM Fnd:

Show Time As: Tentative

Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie Required

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

# <!--[if Ite mso 15 || CheckWebRef]-->

Sleasman, Katherine has shared OneDrive for Business files with you. To view them, click the links below.



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Ex Parte Letter Template GA Petition from AHETF.docx

# <!--[endif]-->

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Thanks,

Katherine Sleasman

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[Holloman.Rachel@epa.gov]; Unnikrishnan, Manjula [Unnikrishnan.Manjula@epa.gov]

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi All,

# Ex. 5 Deliberative Process (DP)

Thanks Erik

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Sent: Thursday, February 11, 2021 12:46 PM

To: Koch, Erin < Koch. Erin@epa.gov>; Hernandez, Connie < Hernandez. Connie@epa.gov>

Cc: Sleasman, Katherine <Sleasman.Katherine@epa.gov>; Stoner, Nora <Stoner.Nora@epa.gov>; Holloman, Rachel

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# Ex. 5 Deliberative Process (DP)

# Ex. 5 Deliberative Process (DP)

Please let me know if you have any questions or concerns.

Thank you,

Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency

P:(703) 305-5190

# Ex. 6 Personal Privacy

From: Kraft, Erik < <a href="mailto:Kraft.Erik@epa.gov">Kent: Thursday, February 11, 2021 9:31 AM</a>

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Cc: Sleasman, Katherine <<u>Sleasman.Katherine@epa.gov</u>>; Stoner, Nora <<u>Stoner.Nora@epa.gov</u>>; Holloman, Rachel

< Holloman. Rachel@epa.gov>

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Connie,

Yes Glufosinate is assigned to my team, team 24. You should also cc Rachel on all emails.

**Thanks** 

Erik

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Optional Stoner, Nora; Koch, Erin

Attendees:

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Here is the reg. of the tech. note in oppin it has a different registrant name.

84840-3 RM Glufosinate-Ammonium Technical 84840 TANGI-PAC, LLC Active - Registered (11-Feb-2020) 95.1

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# Ex. 5 Attorney Client (AC)

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Attached I have sent the acknowledgement email. Please let me know if you have any questions or concerns.

Thank you,

Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
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# Ex. 5 Deliberative Process (DP)

**Thanks** 

Erik

From: Koch, Erin < Koch, Erin@epa.gov>
Sent: Thursday, February 11, 2021 12:22 PM

To: Hernandez, Connie < Hernandez. Connie@epa.gov >; Kraft, Erik < Kraft. Erik@epa.gov >

**Cc:** Sleasman, Katherine <<u>Sleasman.Katherine@epa.gov</u>>; Stoner, Nora <<u>Stoner.Nora@epa.gov</u>>; Holloman, Rachel

<Holloman.Rachel@epa.gov>

**Subject:** RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Erik,

# Ex. 5 Attorney Client (AC)

Thanks, Erin

From: Hernandez, Connie < Hernandez. Connie@epa.gov >

Sent: Thursday, February 11, 2021 10:48 AM

To: Kraft, Erik < Kraft. Erik@epa.gov>

Cc: Sleasman, Katherine <Sleasman.Katherine@epa.gov>; Stoner, Nora <Stoner.Nora@epa.gov>; Holloman, Rachel

<a href="mailto:</a>
<Holloman.Rachel@epa.gov>; Koch, Erin < Koch.Erin@epa.gov>

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Eric,

Thank you for letting me know.

We have received a petition (attached) on February 10, 2021, to cancel RM Glufosinate-Ammonium Technical held by Ragan and Massey, Inc submitted by Agricultural Handler Exposure Task Force, LLC. OGC would like to let you all know hidden in this petition to cancel is a petition to deny related applications (which there may be some, there may not).

Attached I have sent the acknowledgement email. Please let me know if you have any questions or concerns.

Thank you,

Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
P:(703) 305-5190

# Ex. 6 Personal Privacy

From: Kraft, Erik < <a href="mailto:Kraft.Erik@epa.gov">Kent: Thursday, February 11, 2021 9:31 AM</a>

To: Hernandez, Connie < Hernandez. Connie@epa.gov>

Cc: Sleasman, Katherine <<u>Sleasman.Katherine@epa.gov</u>>; Stoner, Nora <<u>Stoner.Nora@epa.gov</u>>; Holloman, Rachel

< Holloman. Rachel@epa.gov>

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

Hi Connie,

Yes Glufosinate is assigned to my team, team 24. You should also cc Rachel on all emails.

Thanks

Erik

From: Hernandez, Connie < Hernandez. Connie @epa.gov>

Sent: Thursday, February 11, 2021 8:00 AM

To: Kraft, Erik < Kraft. Erik@epa.gov>

Cc: Sleasman, Katherine <<u>Sleasman.Katherine@epa.gov</u>>; Stoner, Nora <<u>Stoner.Nora@epa.gov</u>>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Good morning Erik,

OPP has received another petition regarding Glufosinate-Ammonium. I saw that in a previous petition regarding Glufosinate-Ammonium You were cc'd and would like to know if you are the POC for this subject? If not, would you happen to know which team?

Thank you,
Connie Hernandez, Environmental Protection Specialist
Regulatory Support Branch, Mission Support Division
Office of Program Support, Office of Chemical Safety and Pollution Prevention
U.S. Environmental Protection Agency
P:(703) 305-5190

Ex. 6 Personal Privacy

From: Cole, Joseph E. [cole.josephe@epa.gov]

**Sent**: 2/10/2021 8:44:39 PM

**To**: Koch, Erin [Koch.Erin@epa.gov]

Subject: RE: Petition to Cancel RM Glufosinate-Ammonium Technical

### **Thanks**

**From:** Koch, Erin < Koch.Erin@epa.gov> **Sent:** Wednesday, February 10, 2021 3:44 PM **To:** Cole, Joseph E. < cole.josephe@epa.gov>

Subject: FW: Petition to Cancel RM Glufosinate-Ammonium Technical

I've got this. I'll put it into our new process.

From: Mackenzie Schoonmaker < MSchoonmaker@bdlaw.com>

**Sent:** Wednesday, February 10, 2021 3:39 PM **To:** Cole, Joseph E. <<u>cole.josephe@epa.gov</u>>

Cc: mikem@raganandmassey.com; dcompburkey@gmail.com; davejohn@johnsonmgt.com; Janelle Kay

<a href="mailto:</a>qianelle@pyxisrc.com">; Echeverria, Marietta < Echeverria.Marietta@epa.gov</a>>; Koch, Erin <a href="mailto:Koch.Erin@epa.gov">Koch, Erin@epa.gov</a>>; Knorr,

Michele < knorr.michele@epa.gov>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Ragan and Massey, Inc. under FIFRA, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC.

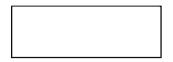
Thank you in advance for your consideration of AHETF's Petition.

Respectfully submitted,

Mackenzie Schoonmaker Counsel for AHETF

# Mackenzie Schoonmaker

Principal



477 Madison Ave. 15th Floor  $\sim$  New York, NY 10022  $\sim$  bdlaw.com O +1.212.702.5415  $\sim$  M +1.914.589.7110  $\sim$  MSchoonmaker@bdlaw.com

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From: Koch, Erin [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D5E11973F9C0476EA9784F4B0A932373-EKOCH]

**Sent**: 2/10/2021 8:43:47 PM

To: Cole, Joseph E. [cole.josephe@epa.gov]

**Subject**: FW: Petition to Cancel RM Glufosinate-Ammonium Technical

Attachments: 2021-02-10 AHETF Petition to Cancel Ragan Massey Glufosinate Technical (with Exhibits).pdf

I've got this. I'll put it into our new process.

From: Mackenzie Schoonmaker < MSchoonmaker@bdlaw.com>

**Sent:** Wednesday, February 10, 2021 3:39 PM **To:** Cole, Joseph E. <cole.josephe@epa.gov>

Cc: mikem@raganandmassey.com; dcompburkey@gmail.com; davejohn@johnsonmgt.com; Janelle Kay

<janelle@pyxisrc.com>; Echeverria, Marietta <Echeverria.Marietta@epa.gov>; Koch, Erin <Koch.Erin@epa.gov>; Knorr,

Michele < knorr.michele@epa.gov>

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Mr. Cole:

Please find attached a Petition to Cancel registrations held by Ragan and Massey, Inc. under FIFRA, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC.

Thank you in advance for your consideration of AHETF's Petition.

Respectfully submitted,

Mackenzie Schoonmaker Counsel for AHETF

Mackenzie Schoonmaker Principal



477 Madison Ave. 15th Floor ~ New York, NY 10022 ~ bdlaw.com O +1.212.702.5415 ~ M +1.914.589.7110 ~ MSchoonmaker@bdlaw.com

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From: Hernandez, Connie [Hernandez.Connie@epa.gov]

Sent: 2/11/2021 12:50:24 PM
To: mschoonmaker@bdlaw.com

CC: Cole, Joseph E. [cole.josephe@epa.gov]; Echeverria, Marietta [Echeverria.Marietta@epa.gov]; Koch, Erin

[Koch.Erin@epa.gov]; Knorr, Michele [knorr.michele@epa.gov]; Sleasman, Katherine

[Sleasman.Katherine@epa.gov]; Smoot, Cameo [Smoot.Cameo@epa.gov]; Stoner, Nora [Stoner.Nora@epa.gov]

**Subject**: Petition to Cancel RM Glufosinate-Ammonium Technical

Attachments: 2021-02-10 AHETF Petition to Cancel Ragan Massey Glufosinate Technical (with Exhibits).pdf

Dear Ms. Schoonmaker,

This email is an acknowledgement receipt of your February 10, 2021 response regarding petition to cancel RM Glufosinate-Ammonium Technical held by Ragan and Massey, Inc submitted by Agricultural Handler Exposure Task Force, LLC.

Your letter has been forwarded to the appropriate division which will be evaluating your request and will keep you informed of the progress. EPA appreciates your concern regarding this issue.

Thank you,

Connie Hernandez, Environmental Protection Specialist Regulatory Support Branch, Mission Support Division Office of Program Support, Office of Chemical Safety and Pollution Prevention U.S. Environmental Protection Agency P:(703) 305-5190

Ex. 6 Personal Privacy

From: Mackenzie Schoonmaker [MSchoonmaker@bdlaw.com]

**Sent**: 2/10/2021 8:38:55 PM

To: Cole, Joseph E. [cole.josephe@epa.gov]

CC: mikem@raganandmassey.com; dcompburkey@gmail.com; davejohn@johnsonmgt.com; Janelle Kay

[janelle@pyxisrc.com]; Echeverria, Marietta [Echeverria.Marietta@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Knorr,

Michele [knorr.michele@epa.gov]

Subject: Petition to Cancel RM Glufosinate-Ammonium Technical

Attachments: 2021-02-10 AHETF Petition to Cancel Ragan Massey Glufosinate Technical (with Exhibits).pdf

### Mr. Cole:

Please find attached a Petition to Cancel registrations held by Ragan and Massey, Inc. under FIFRA, with exhibits, filed on behalf of the Agricultural Handler Exposure Task Force, LLC.

Thank you in advance for your consideration of AHETF's Petition.

Respectfully submitted,

Mackenzie Schoonmaker Counsel for AHETF

Mackenzie Schoonmaker Principal



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From: Sleasman, Katherine [Sleasman.Katherine@epa.gov]

**Sent**: 2/23/2021 2:22:11 PM

To: Mike Massey [mike@raganandmassey.com]

CC: mschoonmaker@bdlaw.com; Kraft, Erik [Kraft.Erik@epa.gov]; Unnikrishnan, Manjula

[Unnikrishnan.Manjula@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Janelle Kay [Janelle@PyxisRC.com]

Subject: RE: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Hi Mike,

Thank you for correcting me. Yes, please get back to us by April 11, 2021 with information you would like to provide on the petition.

Sincerely, Katherine Sleasman OCSPP/OPS/MSD/RSB (703) 347-0409

From: Mike Massey <mike@raganandmassey.com>

**Sent:** Monday, February 22, 2021 11:58 AM

To: Sleasman, Katherine <Sleasman.Katherine@epa.gov>

**Cc:** mschoonmaker@bdlaw.com; Mike Massey <mike@raganandmassey.com>; Kraft, Erik <Kraft.Erik@epa.gov>; Unnikrishnan, Manjula <Unnikrishnan.Manjula@epa.gov>; Schwarz, Stephanie <Schwarz.Stephanie@epa.gov>;

Holloman, Rachel < Holloman.Rachel@epa.gov>; Janelle Kay < Janelle@PyxisRC.com> **Subject:** Re: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Dear Ms. Sleasman,

Thank you for your email and letter dated Feb. 18, 2021 related to the Feb. 10, 2021 Agricultural Handler Exposure Task Force LLC's petition to cancel Ragan and Massey's glufosinate ammonium registration. Ragan and Massey received the petition on Feb. 10, 2021. In accordance with 40 CFR Part 152.99(b)(2), Ragan and Massey understands that it has 60 days from the date of receipt of the petition (Feb. 10, 2021) to provide a response to the petition. According to our records, we believe that Ragan and Massey has until April 11, 2021 to provide a response to the petition, not March 19, 2021 as indicated in your email. Could you confirm our understanding on the timeframe for a response?

Thank you,

Mike

On Feb 18, 2021, at 4:02 PM, Sleasman, Katherine <Sleasman.Katherine@epa.gov> wrote:

Dear Ms. Schoonmaker and Mr. Massey,

The United States Environmental Protection Agency ("EPA" or "the Agency") received the Agricultural Handler Exposure Task Force, LLC's' ("AHETF") petition to cancelRagan and Massey's ("RM") registration and to deny any applications for glufosinate-ammonium on February 10, 2021. According to our records, RM has not responded to this petition and has until March 19, 2021 to file a response. If Massey does not file a response, EPA may treat any factual assertions in the petition as conceded. Please refer to the attached letter which discusses the process to facilitate administrative regularity and convenience, and to ensure that the Agency's decision is supported by the record. The letter also

provides the guidelines for communicating with the Agency on the petition until a final decision is issued. If you believe that any communications are missing, please inform me and share those communications in accordance with the procedures discussed in the attachment by COB Friday, March 19, 2021.

Sincerely,
Katherine Sleasman
Office of Chemical Safety and Pollution Prevention
Office of Program Support
Mission Support Division
Regulatory Support Branch
703-347-0409

<Ex Parte Letter GA Petition from AHETF.pdf>

From: Sleasman, Katherine [Sleasman.Katherine@epa.gov]

Sent: 2/18/2021 10:02:47 PM

To: mschoonmaker@bdlaw.com; mikem@raganandmassey.com

CC: Kraft, Erik [Kraft.Erik@epa.gov]; Unnikrishnan, Manjula [Unnikrishnan.Manjula@epa.gov]; Schwarz, Stephanie

[Schwarz.Stephanie@epa.gov]; Holloman, Rachel [Holloman.Rachel@epa.gov]

**Subject**: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Attachments: Ex Parte Letter GA Petition from AHETF.pdf

Dear Ms. Schoonmaker and Mr. Massey,

The United States Environmental Protection Agency ("EPA" or "the Agency") received the Agricultural Handler Exposure Task Force, LLC's' ("AHETF") petition to cancel Ragan and Massey's ("RM") registration and to deny any applications for glufosinate-ammonium on February 10, 2021. According to our records, RM has not responded to this petition and has until March 19, 2021 to file a response. If Massey does not file a response, EPA may treat any factual assertions in the petition as conceded. Please refer to the attached letter which discusses the process to facilitate administrative regularity and convenience, and to ensure that the Agency's decision is supported by the record. The letter also provides the guidelines for communicating with the Agency on the petition until a final decision is issued. If you believe that any communications are missing, please inform me and share those communications in accordance with the procedures discussed in the attachment by COB Friday, March 19, 2021.

Sincerely,
Katherine Sleasman
Office of Chemical Safety and Pollution Prevention
Office of Program Support
Mission Support Division
Regulatory Support Branch
703-347-0409

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Washington, D.C. 20460

OFFICE OF PESTICIDE PROGRAMS

February 18, 2021

Mackenzie S. Schoomaker Beveridge and Diamond 477 Madison Ave., 15<sup>th</sup> Floor New York, NY 10022-5802 T: (212) 702-5415

E: mschoomaker@bdlaw.com

Counsel for Agricultural Handler Exposure Task Force, LLC

Mike Massey Ragan and Massey 100 Ponchatoula Parkway Ponchatoula, LA 70454

T: (985) 386-6042

E: mikem@raganandmassey.com

Representative for Ragan and Massey

Re: Petition to Cancel Ragan and Massey's Registration for Glufosinate-Ammonium Technical

Dear Ms. Schoomaker and Mr. Massey:

The United States Environmental Protection Agency ("EPA" or "the Agency") received the Agricultural Handler Exposure Task Force, LLC's' ("AHETF") petition to cancel Ragan and Massey's ("RM") registration and to deny any applications for glufosinate-ammonium on February 10, 2021. This is all the communications EPA has regarding the petition.

I am responsible for maintaining the record for this petition and coordinating the analysis of the issues it presents. To support a fair process, facilitate administrative regularity and convenience, and ensure that the Agency's decision is supported by the record, please adhere to the following guidelines for communicating with the Agency on the petition until a final decision is issued:

(1) No party or representative of a party should engage in substantive communications specific to the petition with any EPA employee other than me. However, in rare circumstances, I may invite the parties to communicate certain information specific to the petition to other EPA employees. If any party inadvertently discusses the petition with another EPA

- employee, the party should immediately provide me and the other parties a memorandum summarizing the communication.
- (2) Any substantive communication specific to the petition with me or any other EPA employee should include all parties. Digital communications should be simultaneously provided to the other parties. Written communications should be simultaneously provided on the other parties and should include a statement indicating that the other parties have been served. Oral communications should be made only when all parties are present and should be followed by a joint memorandum by the parties summarizing the communication.
- (3) Communications and documents specific to this petition should be transmitted by email whenever possible.
- (4) The parties should avoid submitting Confidential Business Information (CBI) where possible, particularly by email. If either party believes it needs to submit CBI materials, please send an email to me and the other parties so we can discuss how to safely submit CBI. That party should additionally provide me and the other parties a copy of the intended submission with all CBI removed. If any party discovers that one of their prior submissions unintentionally included unmarked CBI, please immediately provide me and the other parties an updated copy of that submission with all CBI removed. Any submissions on this petition that are not marked as containing CBI will be publicly available upon request.

Beyond the petition and response, any additional briefing will be at the Agency's discretion. If either party wishes to submit any additional briefing, please inform me and the other parties so EPA can establish a briefing schedule.

If you have any questions, please email them to me at sleasman.katherine@epa.gov.

Sincerely,

# KATHERINE SLEASMAN

Digitally signed by KATHERINE SLEASMAN Date: 2021.02.18 16:50:56 -05'00'

Katherine Sleasman
Environmental Protection Specialist
EPA Office of Program Support
Mission Support Division
Regulatory Support Branch
T: (703) 347-0409

E: sleasman.katherine@epa.gov

cc: Stephanie Schwarz, PTSLO

cc: Erik Kraft, Manjula Unnikrishnan, and Rachel Holloman, OPP

Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

Sent: 2/12/2021 6:17:04 PM

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

Subject: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

Location: Microsoft Teams Meeting

2/18/2021 8:30:00 PM Start: 2/18/2021 9:00:00 PM Fnd:

Show Time As: Busy

Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie Required

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

### <!--[if Ite mso 15 || CheckWebRef]-->

Sleasman, Katherine has shared OneDrive for Business files with you. To view them, click the links below.



💆 Summary of GA Petition from AHETF.docx



Ex Parte Letter Template GA Petition from AHETF.docx

### <!--[endif]-->

Attached are the materials for our kick-off meeting on the GA petition to cancel. Please feel free to invite others, and this information is also available in the Team Folder under Glufosinate - subfolder GA.

Thanks,

Katherine Sleasman

# Microsoft Teams meeting

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Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

2/12/2021 6:17:04 PM Sent:

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

Subject: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

Location: Microsoft Teams Meeting

2/18/2021 8:30:00 PM Start: 2/18/2021 9:00:00 PM Fnd:

Show Time As: Tentative

Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie Required

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

### <!--[if Ite mso 15 || CheckWebRef]-->

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Ex Parte Letter Template GA Petition from AHETF.docx

### <!--[endif]-->

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Thanks,

Katherine Sleasman

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Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

Sent: 2/12/2021 6:17:04 PM

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

Subject: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

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Show Time As: Busy

Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie Required

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

### <!--[if Ite mso 15 || CheckWebRef]-->

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💆 Summary of GA Petition from AHETF.docx



Ex Parte Letter Template GA Petition from AHETF.docx

### <!--[endif]-->

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Thanks,

Katherine Sleasman

# Microsoft Teams meeting

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Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

2/12/2021 6:17:04 PM Sent:

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

Subject: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

Location: Microsoft Teams Meeting

Start: 2/18/2021 8:30:00 PM 2/18/2021 9:00:00 PM Fnd:

Show Time As: Tentative

Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie Required

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

### <!--[if Ite mso 15 || CheckWebRef]-->

Sleasman, Katherine has shared OneDrive for Business files with you. To view them, click the links below.



💆 Summary of GA Petition from AHETF.docx



Ex Parte Letter Template GA Petition from AHETF.docx

### <!--[endif]-->

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Thanks,

Katherine Sleasman

# Microsoft Teams meeting

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# Ex. 6 Personal Privacy (PP)

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#### Message

From: Schwarz, Stephanie [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7BA101D178A949F69427566C0F2A9590-SCHWARZ, ST]

**Sent**: 3/1/2021 5:39:15 PM

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]

Subject: RE: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Attachments: Data Compensation Petition\_Glufosinate.ab.ss.xlsx

#### Hi Katherine,

I've added to the petition process plan folder the <u>template for the excel sheet</u> that Jori, Nora, and I mentioned during our last call, its under the templates folder. I'm hoping it will be helpful to have it partially filled out before the next meeting on this petition because it should make it easier to identify which studies are subject to the petition. The original one I created is attached as an example of how it would look, it is from the older glufosinate-amonium petition. Do you think filling out something similar for the new petition would be helpful?

#### Stephanie

Stephanie Schwarz EPA Office of General Counsel Pesticides and Toxic Substances Law Office

T: 202-564-8496

E: schwarz.stephanie@epa.gov

From: Sleasman, Katherine <Sleasman.Katherine@epa.gov>

Sent: Tuesday, February 23, 2021 9:24 AM

To: Schwarz, Stephanie < Schwarz. Stephanie@epa.gov>

Subject: RE: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Ha, ok thanks. I'll give them the full 60 days then since there hasn't been any correspondence yet.

#### -Katherine

From: Schwarz, Stephanie < Schwarz. Stephanie@epa.gov >

Sent: Tuesday, February 23, 2021 9:13 AM

To: Sleasman, Katherine < Sleasman.Katherine@epa.gov>

Subject: RE: Petition to Cancel Registration for Glufosinate-Ammonium Technical

#### Hi Katherine,

It is 60 days to respond, but I think there have been separate 30 day timelines provided for them to provide any additional materials when we already have both the petition and response, maybe that caused the confusion. Fortunately there is no reference to a timeline for a response in the ex parte template so at least no other changes are necessary.

Thanks!

Stephanie

Stephanie Schwarz EPA Office of General Counsel Pesticides and Toxic Substances Law Office

T: 202-564-8496

E: schwarz.stephanie@epa.gov

From: Sleasman, Katherine < Sleasman.Katherine@epa.gov>

Sent: Tuesday, February 23, 2021 9:08 AM

To: Schwarz, Stephanie < <a href="mailto:Schwarz.Stephanie@epa.gov">Schwarz.Stephanie@epa.gov</a>>

Subject: FW: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Hi Stephanie,

Looks like it is 60 days. Why did I think it was 30?

I'm email him back this morning because I was out yesterday.

Thanks, Katherine

From: Mike Massey < mike@raganandmassey.com >

**Sent:** Monday, February 22, 2021 11:58 AM

To: Sleasman, Katherine < Sleasman.Katherine@epa.gov>

**Cc:** <u>mschoonmaker@bdlaw.com</u>; Mike Massey <<u>mike@raganandmassey.com</u>>; Kraft, Erik <<u>Kraft.Erik@epa.gov</u>>; Unnikrishnan, Manjula <<u>Unnikrishnan.Manjula@epa.gov</u>>; Schwarz, Stephanie <<u>Schwarz.Stephanie@epa.gov</u>>;

Holloman, Rachel < Holloman.Rachel@epa.gov >; Janelle Kay < Janelle@PyxisRC.com > Subject: Re: Petition to Cancel Registration for Glufosinate-Ammonium Technical

Dear Ms. Sleasman,

Thank you for your email and letter dated Feb. 18, 2021 related to the Feb. 10, 2021 Agricultural Handler Exposure Task Force LLC's petition to cancel Ragan and Massey's glufosinate ammonium registration. Ragan and Massey received the petition on Feb. 10, 2021. In accordance with 40 CFR Part 152.99(b)(2), Ragan and Massey understands that it has 60 days from the date of receipt of the petition (Feb. 10, 2021) to provide a response to the petition. According to our records, we believe that Ragan and Massey has until April 11, 2021 to provide a response to the petition, not March 19, 2021 as indicated in your email. Could you confirm our understanding on the timeframe for a response?

Thank you,

Mike

On Feb 18, 2021, at 4:02 PM, Sleasman, Katherine <<u>Sleasman.Katherine@epa.gov</u>> wrote:

Dear Ms. Schoonmaker and Mr. Massey,

The United States Environmental Protection Agency ("EPA" or "the Agency") received the Agricultural Handler Exposure Task Force, LLC's' ("AHETF") petition to cancelRagan and Massey's ("RM") registration and to deny any applications for glufosinate-ammonium on February 10, 2021. According to our records, RM has not responded to this petition and has until March 19, 2021 to file a response. If Massey does not file a response, EPA may treat any factual assertions in the petition as conceded. Please refer to the attached letter which discusses the process to facilitate administrative regularity and convenience, and to ensure that the Agency's decision is supported by the record. The letter also provides the guidelines for communicating with the Agency on the petition until a final decision is issued. If you believe that any communications are missing, please inform me and share those

communications in accordance with the procedures discussed in the attachment by COB Friday, March 19, 2021.

Sincerely,
Katherine Sleasman
Office of Chemical Safety and Pollution Prevention
Office of Program Support
Mission Support Division
Regulatory Support Branch
703-347-0409

<Ex Parte Letter GA Petition from AHETF.pdf>

Guideline Studies Bayer Alleges They Did Not Receive Offer to Pay	MRID	Bayer Argument in Petition	Is the Guideline Study Referenced in Consus Data Matrix?
•	46279004	Incorporated into the model used to determine that acute inhalation exposure was not a potential pathway of concern for avian or mammalian species (EFED RA 14)	Yes
870.1100	46279002	Relied on to classify glufosinate products as moderately toxic to mammals formulated (EFED RA at 55)	Yes
850.4400	47542605	Used to determine toxicity endpoints and evaluate the effects on duckweed from exposure to glufosinate and its degradates (EFED RA 51,52)	Yes
850.5400	47542604	Used to determine toxicity endpoints for alga exposed to glufosinate and its degradates (EFED RA 52–53)	Yes
850.1300	48301102	Used to determine chronic toxicity endpoints for invertebrates from exposure to a glufosinate degradate	Yes

freshwater (EFED RA 47, 145)

What was Cited in Data Matrix? (unclear - cited mix of old and Bayer data)	Consus Response to Petition (highlighted - not at issue)	Is it Required under 40 CFR 158?
Consus study		
Consus study		
Unclear	Consus selectively cited five studies, and all were classified as acceptable by EPA.	Yes (158.660)
Unclear	Consus selectively cited five studies, and all were classified as acceptable by EPA.	Yes (158.660)
Old study		

Is there any other reason the study should have been cited in data matrix (e.g. changed labeling requirement)?

**OPP Response** 

**Data Rights** Transferred to BASF? (Date April 26, 2019)

Yes

Yes

Bayer: None of the cited studies address the toxicity of glufosinate degradates. See Ex. 5 Deliberative Process (DP) EFED Risk Assessment at 52

Yes

Bayer: While Consus cites three algal toxicity studies in connection with other data requirements, two were deemed supplemental by EPA and one was insufficient to allow calculation of reliable EC50 values. See Ex. A, Att. 1 (citing MRIDs-----47542603, 48444816-817); EFED Risk Assessment at 52, 146.

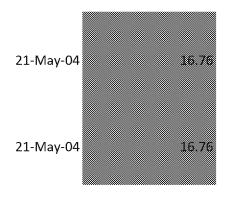
Ex. 5 Deliberative Process (DP)

Yes

Yes

# Submission Date to EPA

# Time Elapsed Since Submission (years)



19-Feb-21

17-Sep-08

12.43

17-Sep-08

12.43

6-Dec-10

10.21

	48301105 48301106	Used to determine chronic toxicity endpoints for freshwater fish exposed to glufosinate (EFED RA 45, 114–15)	No
050.1400	40301100	Same	140
850.1010	48444801	Used to determine acute toxicity endpoints for freshwater invertebrates from exposure to three glufosinate degradates (EFED RA 46–47)	Yes
850.1010	48444802	Same	Yes
850.1010	48444803		Yes
850.1075	48444805	Used to determine acute toxicity endpoints for freshwater fish exposed to glufosinate and its degradates (EFED RA 44–45)	Yes
	48444806		Yes
	48444807		Yes
	48444808		Yes
		Not addressed in petition  Used to determine toxicity endpoints for alga exposed to glufosinate and its	Yes Yes
		degradates (EFED RA 52–53)	

Not required	indicating that the existing data were sufficient to address the applicable data requirements.	guideline study in EFED RA p. 146
Not required	Same	Yes (158.630)
Old study		
Old study Old study		
Old study		
Old study Old study Old study Old study		
Unclear	Consus selectively cited five studies, and all were classified as acceptable by EPA.	Yes (158.660)
Unclear	Same	Yes (158.660)

EPA's 2009 DCI did not require any

additional aquatic organism data,

indicating that the existing data were

Not required

Yes (158.630); but

listed as a non-

Consus Data Matrix: The EFED RA states that these data have not been submitted nor are required for Registration Review; EFED RA p. 45: These data are useful in risk characterization but do not fully address the fish early life stages (e.g., embryo through free-feeding juvenile), as recommended in the OCSPP guideline 850.1400. Therefore, chronic risk quotients are not calculated for glufosinate based on these data because the toxicity to earlier life stages than free-swimming juveniles remains undetermined.

Ex. 5 Deliberative Process (DP)

Yes

Same

# Ex. 5 Deliberative Process (DP)

Yes

Yes

Yes

Yes

Yes

Yes

Yes Yes

Yes

Bayer: While Consus cites three algal toxicity studies in connection with other data requirements, two were deemed supplemental by EPA and one was insufficient to allow calculation of reliable EC50 values. See Ex. A, Att. 1 (citing MRIDs 47542603, 48444816-817); EFED Risk Assessment at 52, 146.

Ex. 5 Deliberative Process (DP)

Yes

Same

Ex. 5 Deliberative Process (DP)

Yes

6-Dec-10	10.21
6-Dec-10	10.21
7-Apr-11	9.88

850.5400	48444812	Same	Yes
850.5400	48444813	Same	Yes
850.4400	48444814	Used to determine toxicity endpoints and evaluate the effects on duckweed from exposure to glufosinate and its degradates (EFED RA 51,52)	Yes
850.4400	48444815	Same	Yes
835.6100	47542601	Relied on to establish the terrestrial field dissipation half-lives for grapes (EFED RA 23)	Yes
860.1500	49963401	Resolved	No
860.1500	49963402	Resolved	No
860.1520	49963403	Relied on to approve various label amendments, allow changes in the application rates for these crops, and confirm or modify the associated tolerances. See Residue Chemistry Review at 1–2 (Apr. 3, 2017), Human Health RA 22	No
860.1500	49974601	Resolved	No
No Guideline (drinking water exposure)	48394101	Relied on to establish organic carbon- normalized soil partition coefficients for certain soils, correcting prior EFED evaluations which had used incorrect values (EFED RA 23)	No
No Guideline (public interest doc./benefits data)	49525501	Relied on in EPA's Benefits Assessment	No

Unclear	Same	Yes (158.660)
Unclear	Same	Yes (158.660)
Unclear	Same	Yes (158.660)
Unclear	Same	Yes (158.660)
Old studies		
Amended Offer to Pay Amended Offer to Pay		
Not required (argued in response brief)	Cited 2017 EPA Memo: "Although the glufosinate ammonium residue chemistry database includes adequate processing studies for soybean and corn, BCS submitted the results of a new soybean processing study but not for corn"	Conditionally Required (4 tables)
Amended Offer to Pay		
NA	EPA's use of data for risk assessment purposes does not render those data "required." In fact, there is no requirement in Part 158 or in the 2009 DCI for a drinking water exposure assessment.	No
NA	Benefits data are not a Part 158 data requirement for herbicides such as glufosinate, and such data were not required in EPA's 2009 DCI for glufosinate.	No

Same	Ex. 5 Deliberative Process (DP)	Yes
Same	Ex. 5 Deliberative Process (DP)	Yes
Bayer: None of the cited studies address the toxicity of glufosinate degradates. See EFED Risk Assessment at 52	Ex. 5 Deliberative Process (DP)	Yes
Same	Ex. 5 Deliberative Process (DP)	Yes
		Yes
	F	Yes Yes
	Ex. 5 Deliberative Process (DP)	Yes
	L	.i Yes
	Ex. 5 Deliberative Process (DP)	Yes
	Ex. 5 Deliberative Process (DP)	Yes

7-Apr-11	9.88
7-Apr-11	9.88
7-Apr-11	9.88
7-Apr-11	9.88
17-Sep-08	12.43
12-Jul-16 12-Jul-16	4.61 4.61
12-Jul-16	4.61
12-Jul-16	4.61
15-Feb-11	10.02
10-Dec-14	6.20

# Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

From: Sleasman, Katherine [Sleasman.Katherine@epa.gov]

**Sent**: 2/12/2021 6:17:04 PM

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

**Subject**: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf; 2021-02-10 AHETF Petition to Cancel Ragan Massey Glufosinate Technical

(with Exhibits).pdf

Location: Microsoft Teams Meeting

**Start**: 2/18/2021 8:30:00 PM **End**: 2/18/2021 9:00:00 PM

Show Time As: Busy

Required Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

### <!--[if Ite mso 15 || CheckWebRef]-->

Sleasman, Katherine has shared OneDrive for Business files with you. To view them, click the links below.



Summary of GA Petition from AHETF.docx



Ex Parte Letter Template GA Petition from AHETF.docx

### <!--[endif]-->

Attached are the materials for our kick-off meeting on the GA petition to cancel. Please feel free to invite others, and this information is also available in the Team Folder under Glufosinate – subfolder GA.

Thanks,

Katherine Sleasman

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Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

2/12/2021 6:17:04 PM Sent:

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]

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Show Time As: Busy

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Optional Stoner, Nora; Koch, Erin

Attendees:

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Katherine Sleasman

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Sleasman, Katherine [Sleasman.Katherine@epa.gov] From:

2/12/2021 6:17:04 PM Sent:

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

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Glufosinate Technical (with Exhibits).pdf

Location: Microsoft Teams Meeting

Start: 2/18/2021 8:30:00 PM 2/18/2021 9:00:00 PM Fnd:

Show Time As: Tentative

Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie Required

Attendees:

Optional Stoner, Nora; Koch, Erin

Attendees:

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Thanks,

Katherine Sleasman

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From: Sleasman, Katherine [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=9131559fb0f744068b68c1c0b8b8f5bf-KSleasma]

**Sent**: 2/18/2021 9:55:55 PM

To: Unnikrishnan, Manjula [Unnikrishnan.Manjula@epa.gov]

**Subject**: FW: Petition to Cancel Glufosinate Ammonium

Attachments: RE: Petition to Cancel RM Glufosinate-Ammonium Technical; 2021-02-10 AHETF Petition to Cancel Ragan Massey

Glufosinate Technical (with Exhibits).pdf

Location: Microsoft Teams Meeting

**Start**: 2/18/2021 8:30:00 PM **End**: 2/18/2021 9:00:00 PM

Show Time As: Tentative

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<!--[endif]-->

Hi Manjula,

Here are the materials we discussed today. Stephanie is going to try to combine this petition with the one you all are already working on from 2018. She'll keep us updated on progress so we aren't doing double work. Talk to you in a few weeks to check-in on our progress reviewing the data.

Thanks, Katherine

-----Original Appointment-----From: Sleasman, Katherine

Sent: Friday, February 12, 2021 1:16 PM

To: Sleasman, Katherine; Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie

Cc: Stoner, Nora; Koch, Erin

Subject: Petition to Cancel Glufosinate Ammonium

When: Thursday, February 18, 2021 3:30 PM-4:00 PM (UTC-05:00) Eastern Time (US & Canada).

Where: Microsoft Teams Meeting

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Thanks,

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Sleasman, Katherine [/o=ExchangeLabs/ou=Exchange Administrative Group From:

(FYDIBOHF23SPDLT)/cn=Recipients/cn=9131559fb0f744068b68c1c0b8b8f5bf-KSleasma]

Sent: 2/12/2021 6:16:14 PM

To: Sleasman, Katherine [Sleasman.Katherine@epa.gov]; Kraft, Erik [Kraft.Erik@epa.gov]; Holloman, Rachel

[Holloman.Rachel@epa.gov]; Schwarz, Stephanie [Schwarz.Stephanie@epa.gov]

CC: Stoner, Nora [Stoner.Nora@epa.gov]; Koch, Erin [Koch.Erin@epa.gov]; Unnikrishnan, Manjula

[Unnikrishnan.Manjula@epa.gov]

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Show Time As: Busy

Required Sleasman, Katherine; Kraft, Erik; Holloman, Rachel; Schwarz, Stephanie

Attendees:

Optional Stoner, Nora; Koch, Erin; Unnikrishnan, Manjula

Attendees:

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Thanks,

Katherine Sleasman

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